

Biomedical Engineering (track 1)

College of Engineering and Engineering Technology

Degree Path - Catalog 2015-2016

Semester 1	Credits	Milestones	Semester 2	Credits	Milestones
NGL 103	3		ENGL 203	3	
1ATH 229	4		MATH 230	4	
PHYS 253	4		PHYS 273	4	
JEET 101	1		BIOS 208 & 210	4	
CHEM 210 & 212	4		Gen Ed: Creativity + Critical Analvsis	3	
Fotal hours	16		Total hours	18	
Notes/Comments:			Notes/Comments:		1
Semester 3	Credits	Milestones	Semester 4	Credits	Milestones
/ATH 232	4		ELE 250 and ELE 250U	4	
CSCI 240	4		MATH 336	3	
ELE 210 and ELE 210U	4		COMS 100	3	
SYE 335 or STAT 350	3		PHYS 283	3	
			MEE 209	4	
Total hours	15		Total hours	17	
Notes/Comments:			Notes/Comments:		L
Semester 5	Credits	Milestones	Semester 6	Credits	Milestones
					• TECH Electives: BIOS 213, BIO 359, ELE 421, ELE 499, ISYE 410
	3		CHEM 230 and CHEM 231	4	
ELE 315				4	359, ELE 421, ELE 499, ISYE 41
ELE 315 ELE 330	3		CHEM 230 and CHEM 231		359, ELE 421, ELE 499, ISYE 41 KNPE 313, KNPE 314, PHYS 33
ELE 315 ELE 330 ELE 335 Gen Ed: Creativity + Critical	3		CHEM 230 and CHEM 231 ELE 370	3	359, ELE 421, ELE 499, ISYE 41 KNPE 313, KNPE 314, PHYS 33
ELE 315 ELE 330 ELE 335 Gen Ed: Creativity + Critical Analvsis	3 4 3		CHEM 230 and CHEM 231 ELE 370 ELE 380	3	359, ELE 421, ELE 499, ISYE 410 KNPE 313, KNPE 314, PHYS 335
ELE 315 ELE 330 ELE 335 Gen Ed: Creativity + Critical Analvsis BIOS 311 or BIOS 357	3 4 3 3		CHEM 230 and CHEM 231 ELE 370 ELE 380 ELE 356	3 4 4	359, ELE 421, ELE 499, ISYE 410 KNPE 313, KNPE 314, PHYS 335
ELE 315 ELE 330 ELE 335 Gen Ed: Creativity + Critical Analysis BIOS 311 or BIOS 357 Fotal hours	3 4 3 3 4-5		CHEM 230 and CHEM 231 ELE 370 ELE 380 ELE 356 MEE 340	3 4 4 3	359, ELE 421, ELE 499, ISYE 41 KNPE 313, KNPE 314, PHYS 33
ELE 315 ELE 330 ELE 335 Gen Ed: Creativity + Critical Analysis BIOS 311 or BIOS 357 Total hours	3 4 3 3 4-5	Milestones	CHEM 230 and CHEM 231 ELE 370 ELE 380 ELE 356 MEE 340 Total hours	3 4 4 3	359, ELE 421, ELE 499, ISYE 41 KNPE 313, KNPE 314, PHYS 33
ELE 315 ELE 330 ELE 335 Gen Ed: Creativity + Critical Analysis BIOS 311 or BIOS 357 Fotal hours Notes/Comments: Semester 7	3 4 3 4-5 17-18 Credits 4	Milestones TECH Electives: BIOS 213, BIOS 59, ELE 421, ELE 499, ISYE 410,	CHEM 230 and CHEM 231 ELE 370 ELE 380 ELE 356 MEE 340 Total hours Notes/Comments:	3 4 4 3 18	359, ELE 421, ELE 499, ISYE 41 KNPE 313, KNPE 314, PHYS 33 and PHYS 434 (6-8 hours). Milestones • TECH Electives: BIOS 213, BIO 359, ELE 421, ELE 499, ISYE 41
ELE 315 ELE 330 ELE 335 Gen Ed: Creativity + Critical Analysis BIOS 311 or BIOS 357 Fotal hours Notes/Comments: Semester 7 ELE 420	3 4 3 4-5 17-18 Credits 4 3	Milestones TECH Electives: BIOS 213, BIOS	CHEM 230 and CHEM 231 ELE 370 ELE 380 ELE 356 MEE 340 Total hours Notes/Comments: Semester 8	3 4 4 3 18 Credits	359, ELE 421, ELE 499, ISYE 41 KNPE 313, KNPE 314, PHYS 33 and PHYS 434 (6-8 hours). Milestones • TECH Electives: BIOS 213, BIO 359, ELE 421, ELE 499, ISYE 41
ELE 315 ELE 330 ELE 335 Gen Ed: Creativity + Critical malvsis BIOS 311 or BIOS 357 Fotal hours Iotes/Comments: ELE 420 ELE 425	3 4 3 4-5 17-18 Credits 4 3	Milestones TECH Electives: BIOS 213, BIOS 59, ELE 421, ELE 499, ISYE 410, NPE 313, KNPE 314, PHYS 335,	CHEM 230 and CHEM 231 ELE 370 ELE 380 ELE 356 MEE 340 Total hours Notes/Comments: Semester 8 CHEM 370	3 4 4 3 18 Credits 3	359, ELE 421, ELE 499, ISYE 41 KNPE 313, KNPE 314, PHYS 33 and PHYS 434 (6-8 hours). • TECH Electives: BIOS 213, BIO 359, ELE 421, ELE 499, ISYE 41 KNPE 313, KNPE 314, PHYS 33
ELE 315 ELE 330 ELE 335 Gen Ed: Creativity + Critical analysis BIOS 311 or BIOS 357 Fotal hours Elotes/Comments: ELE 420 ELE 420 ELE 425 ELE 491	3 4 3 3 4-5 17-18	Milestones TECH Electives: BIOS 213, BIOS 59, ELE 421, ELE 499, ISYE 410, NPE 313, KNPE 314, PHYS 335, nd PHYS 434 (6-8 hours).	CHEM 230 and CHEM 231 ELE 370 ELE 380 ELE 356 MEE 340 Total hours Notes/Comments: Semester 8 CHEM 370 ELE 429	3 4 4 3 18 18 Credits 3 3	359, ELE 421, ELE 499, ISYE 41 KNPE 313, KNPE 314, PHYS 33 and PHYS 434 (6-8 hours). • TECH Electives: BIOS 213, BIC 359, ELE 421, ELE 499, ISYE 41 KNPE 313, KNPE 314, PHYS 33
ELE 315 ELE 330 ELE 335 Gen Ed: Creativity + Critical malvsis BIOS 311 or BIOS 357 Total hours Total hours Total hours Total hours Total hours ELE 420 ELE 420 ELE 425 ELE 491 SYE 220	3 4 3 4-5 17-18	Milestones TECH Electives: BIOS 213, BIOS 59, ELE 421, ELE 499, ISYE 410, NPE 313, KNPE 314, PHYS 335,	CHEM 230 and CHEM 231 ELE 370 ELE 380 ELE 356 MEE 340 Total hours Notes/Comments: CHEM 370 ELE 429 Tech Elective	3 4 4 3 18 18 Credits 3 3 3 3-4	359, ELE 421, ELE 499, ISYE 41 KNPE 313, KNPE 314, PHYS 33 and PHYS 434 (6-8 hours). • TECH Electives: BIOS 213, BIC 359, ELE 421, ELE 499, ISYE 41 KNPE 313, KNPE 314, PHYS 33
ELE 315 ELE 330 ELE 335 Gen Ed: Creativity + Critical Analvsis BIOS 311 or BIOS 357 Total hours Notes/Comments:	3 4 3 3 4-5 17-18	Milestones TECH Electives: BIOS 213, BIOS 59, ELE 421, ELE 499, ISYE 410, NPE 313, KNPE 314, PHYS 335, nd PHYS 434 (6-8 hours). Apply for graduation (2/1 for May,	CHEM 230 and CHEM 231 ELE 370 ELE 380 ELE 356 MEE 340 Total hours Notes/Comments: Semester 8 CHEM 370 ELE 429 Tech Elective Gen Ed: Society + Culture	3 4 4 3 18 18 Credits 3 3 3 4 3.4 3.4	359, ELE 421, ELE 499, ISYE 41 KNPE 313, KNPE 314, PHYS 33 and PHYS 434 (6-8 hours). • TECH Electives: BIOS 213, BIC 359, ELE 421, ELE 499, ISYE 41 KNPE 313, KNPE 314, PHYS 33

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.