BME Major Senior Checklist

NAME

Graduation Month/Year		Track Specialization		Cell/Molecular	Biomaterial/Biomech	Bioelect/Biolmag						
Pre-requisites for this course*	Fall, Freshman Year	credits	sem	grade	This course is required for:		Pre-requisites for this course	Spring, Freshman Year	credits	sem	grade	This course is required for:
math placement exam (MPE) level 5	AMS 151: Calc 1 SBC QPS	3			Calc 2		C or higher in Calc 1, or MPE level 7	AMS 161: Calc 2	3			Calc 3 or 4 BME 260
MAT 125 or higher	CHE 131: Chem 1	4			Chem 2; BIO 202/204		C or higher in Chem 1; Pre- or Co-req: Calc 1 or Calc A	CHE 132: Chem 2	4			BME 381; BME 40
5 MPE; Co-req Calc 1	PHY 131/133: Physics 1/Lab SBC SNW	4			Physics 2; BME 260		C or higher in PHY 131 or PHY 141; Co-req: Calc 2	PHY 132/134: Physics 2/Lab	4			
BME major or BNG minor	BME 100: Intro to BME SBC TECH	3			BME 212; BME 260; BME 381; BME 353		none	MEC 203: CAD	3			
	SBC: WRT 102 (WRT)	3			BME 300		BME major	BME 120: Programming	3			
	Freshman Seminar (101)	1						Freshman Seminar (102)	1			
	Total	18						Total	al 18			
						:	Spring, Sophomore Yea	r				
Calc 2 or MPE level 9	AMS 261: Calc 3	4			BME 305; BME430		Calc 2 or MPE level 9	AMS 361: Calc 4	4			BME 305
BME major; BME 100; Pre- or Co-req: BIO 202 or 203	BME 212: Res Lab Fund or SBC (SBS)	3			BME303; BME 311; BME 313; BME 353		BME major; BME 100; Pre- or Co-req: BIO 202 or 203	BME 212: Res Lab Fund or SBC (SBS)	3			BME303; BME 311 BME 313; BME 353
C or higher in Chem 1 or Corequisite CHE 152	BIO 202: Mol&Cell Biology	3			Pre/Co BME 212; 303; 304; 305; 381; 404; 430; 481		BME 100; AMS 161; Phy 1 or Phy A	BME 260: Statics/Dynamics	3			BME 303; BME 305
C or higher in Chem 1, or Co-req: CHE 152; Pre- or Corequisite: BIO 202	BIO 204: Bio Lab	2					BME 100; BIO 202 or 203	BME 304: Genetic Eng (STAS or DEC H)	3			BME 402
AMS 151 or MAT 131 or 141 or co-req MAT 126 or MPE level 7	AMS 210: Lin Alg	3						SBC: GLO (or DEC B)	3			
	Total	15						Total	16			

Math Sequence

•MAT 125/126/127 or MAT 131/132 or MAT 141/142 in lieu of AMS 151/161

•MAT 203 or MAT 205 in lieu of AMS 261

•MAT 303 or MAT 305 in lieu of AMS 361

•MAT 211 in lieu of AMS 210

•MAT 307/308 plus a third AMS/MAT course of your choosing

(preferably one approved as a tech elective) in lieu of AMS 210/261/361

Physics Sequence

•PHY 125/126/127 or 141/142 in lieu of PHY 131/132

Courses requiring a C or better grade

BME 300 requires an "S" grade

All required math courses in the calculus sequence									
All required natural science courses									
(BIO 202/204, CHE sequence and PHY sequence)									
All required BME courses									
(BME 100/212/260/271/301/303/304/305/440/441)									
All technical electives									

BME Technical Electives (pre-reqs)	*design courses						
for any track							
BME 311* (BME212)	BME 402						
BME 312*	BME 404*						
BME 313* (BME212, pre/co BME271)	BME 420*						
BME 353 (BME100,212)	BME 430						
BME 354* (BME353)	BME 481*						
BME 371 (BME305)	BME 499						
BME 381* (BME100, CHE132, pre/co (BIO	202 or 203)						

		Fall, Junior Year		Spring, Junior Year												
	Calc 2; Phys 2	BME 271: Intro BioElect BioPhotonics	4			BME 301; BME313; BME481		pre- or co-req BME 212; C or higher in BME 271; BME 120		1: Bioelectricity ophotonics)	3			BME 440		
	AMS 161 or MAT 132 or MAT 126 or MAT 142	AMS 310: Prob/Stat	3					Calc 3 & 4; Pre- or co-req BME 212; BME 260; BME 303; Pre- or co-req BIO 202 or 203	BME	305: Biofluids	3			BME 371; BME 440		
	BME 260, BME 212; Pre- or Co-req BIO 202 or 203	BME 303: Biomechanics	3			BME 305; BME420			BME Tech Elective 3 BME Tech Elective 4		3					
	WRT 102; U3 or U4 standing; BME major; co-req any BME 300-400	BME 300: Tech Writing SBC WRTD	0								3					
		BME Tech Elective 1 (design)**	3						S	BC: HUM	3					
		BME Tech Elective 2 (design)	3													
		Total	16							Total	15					
		Fall, Senior Year							Spring	g, Senior Year						
	BME major; U4 standing; BME 301 and 305	BME 440: Senior Design 1	3					BME 440	BME 441	: Senior Design 2	3					
		BME Tech Elective 5	3						Tech Elective 8		3					
		Tech Elective 6	3						Teo	ch Elective 9	3					
		Tech Elective 7	3						Тес	h Elective 10	3					
		SBC: ARTS	3						SBC: USA		3					
		Total	15						Total							
	-	letin for Alternative Pre-requisites and Co-re	the mos	st Up-to-Da	te Information				required for U2, U3, U4; 2							
Required Technical Electives (30 credits required) 30 Required Engineering (51 credits required) 52					**5 BME TE required for U1 and transfers as of Fall 2017; 2 must be design								esign			
	Required E	ngineering (51 credits required)						other TE ma	y be engineering or non-e							
		Total credits for program	•You need to take the following 6 SBC courses: ARTS SBS						This student	This student has been cleared for the BME major						
Chemistry Sequence					GLO USA											
•CHE 152 in lieu of CHE 131/132					SBC courses can satisfy more than one SBC category Remaining SBC requirements are satisfied within the major requirements							Undergraduate Program Director				
(preferable for pre-medical students to take CHE 152/331/332)					QPS satis	fied by calculus	a within the major requireme	0.140								
Computer Programming					FECH sati	fied by chemistry sfied by BME 100										
Computer Programming •ESG 111 or CSE 130 or ESE 124 in lieu of BME 120					STAS satisfied by BME 304 Category III and IV SBC satisfied by BME 440/441						Undergraduate Program Coordinator					
					NOTE: This flow chart is for planning purposes only. Variations to this flow chart may meet the requirements for graduation; check with your advisor and/or the						energialater i regium everunator					
To graduate, an overall GPA of 2.0 is required					undergraduate program coordinator.											
										DATE						