

BME Major Senior Checklist

NAME

ID

Graduation Month/Year						Track Specialization	Cell/Molecular	Biomaterial/Biomech	Bioelect/Bioimag		
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; BME260
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; BME404
5 MPE; Co-req Calc 1	PHY 131/133: Physics 1/Lab SBC SNW	4			Physics 2; BME260	C or higher in PHY 131 or PHY 141; Co-req: Calc 2	PHY 132/134: Physics 2/Lab	4			
BME major	BME 100: Intro to BME SBC TECH	3			BME212; BME260; BME 381; BME353	BME major	BME 120: Programming	3			
	WRT 102 (WRT)	3			BME 300		SBC	3			
	Freshman Seminar (101)	1					Freshman Seminar (102)	1			
	Total	18					Total	18			
Pre-requisites for this Course	Fall, Sophomore Year	Credits	Sem	Grade	This course is required for:	Pre-requisites for this Course	Spring, Sophomore Year	Credits	Sem	Grade	This course is required for:
Calc 2 or MPE level 9	AMS 261: Calc 3	4			BME305; 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	3			BME303; BME311; BME313; BME353	BME major; BME 100; Pre- or Co-req: BIO 202 or 203	BME 212: Res Lab Fund or BME 203	3			BME303; BME 311; BME 313; BME353
C or higher in Chem 1 or Co-requisite CHE 152	BIO 202: Mol & Cell Biology	3			Pre/Co BME212; 303; 304; 305; 381; 404;430; 481	BME 100; AMS 161; Phy 1 or Phy A	BME 260: Statics/Dynamics	4			BME303; BME305
C or higher in Chem 1 or Co-requisite CHE 152; pre- or Co-requisite: BIO 202	BME 204: Bio Lab	2				BME 100; Bio 202 or 203	BME 304: Genetic Eng STAS	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	3			
	BME 203: Emergent BioDesign	3									
	Total	18					Total	17			

Math Sequence
 - MAT 125/126 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
 - All required math courses in the calculus sequence
 - All required natural science courses (BIO202/204, CHE sequence and PHY sequence)
 - All required BME courses (BME 100/203/212/260/271/301/303/304/305/440/441)
 - All technical electives

BME 300 requires an "S" grade

BME Technical Electives (pre-reqs) * design courses
 For any track
 BME311* (BME212) BME402
 BME312* BME404*
 BME313* (BME212, pre/co BME271) BME 420*
 BME353 (BME100, 212) BME430
 BME354* (BME353) BME481*
 BME371 (BME305) BME499
 BME381* (BME100, CHE312, pre/co BIO202 or 203)

Intended Career Choice: _____

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Pre-requisites for this Course	Fall, Junior Year	Credits	Sem	Grade	This course is required for:	Pre-requisites for this Course	Spring, Junior Year	Credits	Sem	Grade	This course is required for:
Calc 2; Phys 2	BME 271: Intro Electric Cir & Bioelectricity	3			BME 301; BME313; BME481	Pre- or Co-req BME212; C or higher in BME271; BME120	BME 301: Bioelectricity	3			BME 440
AMS161 or MAT 132 or MAT 126 or MAT 142	AMS 310: Prob/Stat	3				Calc 3 & 4; Pre- or Co-req BME 212; BME260; BME303; Pre- or Co-req	BME 305: Biofluids	3			BME371; BME440
WRT 102; U3 or U4 standing; Co-req any BME300-400	BME 300: Writing in BME	0					SBC	3			
BME 260; BME212; Pre- or Co-req BIO202 or 203	BME303 Biomechanics SBC: STATS	3			BME 305; BME420		BME Technical Elective 3	3			
	BME Tech Elective 1 (Design)	3					BME Technical Elective 4	3			
	BME Tech Elective 2 (Design)	3									
	Total	15					Total	15			
Pre-requisites for this Course	Fall, Senior Year	Credits	Sem	Grade	This course is required for:	Pre-requisites for this Course	Spring, Senior Year	Credits	Sem	Grade	This course is required for:
BME major; U4 standing; BME 301 and 305	BME 440: Senior Design in BME	3			BME 441	BME 440	BME 441: Senior Design in BME	3			
	BME Technical Elective 5	3					Technical Elective 8	3			
	Technical Elective 6	3					Technical Elective 9	3			
	Technical Elective 7	3					Technical Elective 10	3			
	SBC	3									
	Total	15					Total	12			

* Check Undergraduate Bulletin for Alternative Pre-requisites and Co-requisites and the most up to date information

** BME TE required for students admitted before Fall 2017, 2 must be design

Required Technical Electives (30 credits required) 30

** 5 BME TE required for students admitted as of Fall 2017, 2 must be design

Required Engineering (51 credits required) 51

Other TE may be engineering or non-engineering

Total credits for program 128

This student has been cleared for the BME major

Chemistry Sequence
- CHE 152 in lieu of CHE 131/132

SBC Requirements
- You need to take the following SBC courses
ARTS SBS GLO USA HUM WRT
DIV (if admitted in or after fall 2019)
- SBC courses can satisfy more than one SBC category
- Remaining SBC requirements are satisfied within the major requirements
QPS satisfied by calculus
SNW satisfied by chemistry
TECH satisfied by BME100
STAS satisfied by BME304
Category III and IV SBC satisfied by BME440/441
Note: This flow chart is for planning purposes only. Variations to this flow chart

Computer Programming
- BME 120

Undergraduate Program Director

To graduate, an overall GPA of 2.5 is required

Undergraduate Program Coordinator

DATE _____