

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: _____

