

BIOMEDICAL ENGINEERING MAJOR GRADUATION CHECKLIST

NAME:	SBID#:
Email:	GPA:
ADDRESS:	CLEARANCE:
TRANSFER INSTITUTE:	DATE:

Remember to email Dr. Frame and Jessica with your TRACK. No TRACK, no degree.

SPECIALIZATION TRACK:
A Grade of C or better is required for all courses in Yellow

General Engineering

* You must have 51 Engineering Credits.

Course	Course Title	Credits	Grade
MEC 203	CAD	2	
BME 120 or other ESG 111, CSE 130, ESE 124	C-Programming for Engineers	3	
MEC 260	Engineering Statistics	3	
MEC 262	Dynamics	3	
ESE 271	Electrical Circuit Analysis I	4	
other engr			
other engr			
Total:		15	

BME Core Courses

Course	Course Title	Credits	Grade
BME 100	Engineering	3	
BME 212	Biomedical Engineering Research Fundamentals	3	
BME 300	Writing in Biomedical Engineering	0	
BME 301	Bioelectricity	3	
BME 304	H Genetic Engineering	3	
BME 305	Biofluids	3	
BME 440	Biomedical Engineering Design	3	
BME 441	Senior Design Project in Biomedical Engineering	3	
Total:		21	

BME Technical Electives
 You need at least 3 Tech Elective Courses from BME.

Course	Course Title	Credits	Grade
BME 303	Biomechanics	3	
BME 371	Biological Microfluids	3	
BME 402	Contemporary Biotechnology	3	
BME 420	Computational Biomechanics	3	
BME 430	Quantitative Human Physiology	3	
BME 353	Biomaterials	3	
BME 499	Research in Biomedical Engineering	3	

Courses With Design

BME 311	Fundamentals of Macro to Molecular Bioimaging	3	
BME 312	LabView Prog for Engineers	3	
BME 313	Bioinstrumentation	3	
BME 354	Advanced Biomaterials	3	
BME 381	Nanofabrication in Biomedical Operations	3	
BME 404	Essentials of Tissue Engineering	3	
BME 481	Biosensors	3	
Total:			

BME 475, BME 488 do not count as Technical Electives.

Technical Electives with a design component

You need six credits of design

If you are unsure if you had a design component in a non-BME tech elective course, then ask yourself...

Did you just do assigned problems? Did NO
 you have a project that was somewhat "open-ended" YES

CLEARANCE

_____ Cleared (All requirements completed)
 _____ Not Cleared
 _____ Missing or Conditions:

IMPORTANT NOTES

1. This checklist summarizes your major/minor degree requirements. Please consult the Undergraduate Bulletin that was in place when you declared your major/minor for the official list of major/minor requirements. For details, visit <http://sb.cc.stonybrook.edu/bulletin/current/archives.php>
2. This checklist indicates ONLY what is required for your major or minor, and does not confirm completion of the University's general education, upper-division, and total credit requirements. Please consult with the appropriate academic advising unit to review the remaining graduation requirements. For general advising locations, visit <http://www.stonybrook.edu/sb/academichelp.shtml>

Math Basic Science

Course	Course Title	Credits	Grade
AMS 151 or MAT 131 or MAT 125	Calculus I	4	
AMS 161 or MAT 132 or MAT 126	Calculus II	4	
MAT 127	*Only if you took MAT 125 and 126		
AMS 261 or MAT 203 or MAT 205	Calculus III	4	
AMS 361 or MAT 303 or MAT 305	Calculus IV	4	
AMS 210 or MAT 211	Linear Algebra	3	
AMS 310	Probability and Statistics	3	
PHY 125	Classical Physics A		
PHY 126	Classical Physics B		
PHY 127	Classical Physics C		
OR			
PHY 131/133	Classical Physics I & Lab	4	
PHY 132/134	Classical Physics II & Lab	4	
OR			
PHY 141	Classical Physics I		
PHY 142	Classical Physics II		
AND			
BIO 202	Fundamentals of Biology: Molecular and Cellular Biology	3	
BIO 204	Biology Laboratory	2	
CHE 131/141	General Chemistry I	4	
CHE 132/142	General Chemistry II	4	
Total:			

Technical Electives

You need to have 30 total Tech Elective credits
 You must have enough Engineering TE's to tally 51 engineering credits, the rest can be Engineering or Other

*Engineering Tech Electives

Course	Course Title	Credits	Grade
TE 1:			
TE 2:			
TE 3:			
TE 4:			
TE 5:			
*Engineering or Other Tech Electives (approved for your track)			
TE 6:			
TE 7:			
TE 8:			
TE 10:			
TE 11:			
Total:			

For DEC requirements, go see the CEAS Undergrad Office

Course	Course Title	Credits	Grade
Engineers need			
DEC A:			
DEC B:			
DEC F:			
DEC G:			
DEC H: BME 304	H Genetic Engineering	3	
DEC I:			
DEC J:			

For I and J, one must be Humanities and the other Social/Behavioral.