BMEG Advising Worksheet (Fall 2018 or later)
*See highlighted changes from previous curriculum

Student Name: _____ **ID:**_____

Expected Graduation Date: _____

*Students who start the program starting Fall 2018 are required to follow this curriculum

*Students who started the program prior to Fall 2018 may choose to migrate to this curriculum and will need to follow the entire new curriculum. Please talk to your advisor if you choose to do so.

Check all that apply:
- ❒ Honors
- ❒ Pre-Professional (Med/Dent/Vet)
- ❒ Pre-Industry
- ❒ Pre-Grad School
- ❒ Others:

	Courses I have taken (Term/Year)	Courses I will be taking (Term/Year)
GNEG 1111 Introduction to Engineering I (Fa)		
MATH 2554 Calculus I (Sp, Su, Fa)		
CHEM 1103 University Chemistry I (Su, Fa)		
PHYS 2054 University Physics I (Sp, Su, Fa) Pre- or Co: MATH 2554; Co: Lab component		
ENGL 1013 Composition I (Sp, Su, Fa)		
GNEG 1121 or 1103 Introduction to Engineering II (Sp) Prerequisite: GNEG 1111		
MATH 2564 Calculus II (Sp, Su, Fa) Prerequisite: MATH 2554 (C or better)		
CHEM 1123/21L University Chemistry II (Sp, Su, Fa)		
BIOL 1543/41L Principles of Biology (Sp, Su, Fa)		
ENGL 1023 Technical Composition II (Sp, Su, Fa)		
BMEG 2614 Introduction to BMEG (Su,Fa): Pre: GNEG 1121/1103, CHEM 1103, MATH 2554, PHYS 2054		
PHYS 2074 University Physics II (Sp, Su, Fa) Pre: PHYS 2054; Pre- or Co: MATH 2564; Co: Lab		
MATH 3083 Linear Algebra (Sp, Su, Fa) Pre: MATH 2554 (C or better)		
CHEM 3603/01L Organic Chemistry I (Fa, Su, Sp) Pre: CHEM 1123/21L		
BIOL 2533 Cell Biology (Sp, Fa) Pre- or Co: CHEM 1123/21L ; Pre: BIOL 1543, BIOL 1541L		
BMEG 2813 Biomechanical Engineering (Fa,Sp) Pre: BMEG 2613, CHEM 1123, MATH 2564, PHYS 2074		
BMEG 2904 Biomedical Instrumentation (Sp) Pre: BMEG 2613, MATH 2564, PHYS 2074		
MATH 2584 Differential Equations (Sp, Su, Fa) Pre: MATH 2564 (C or better)		
BMEG 3634 Biomaterials (Fa) Pre: BMEG 2813, CHEM 1123, BIOL 1543/41L		
BMEG 3124 Biomedical Signals & Systems (Fa) Pre: BMEG 2904		
BMEG 3801 Clinical Needs Finding (Fa, Sp) Pre: BMEG 2813 or BMEG 2904		

CHEG 2313 or MEEG 2403 Thermodynamics (Sp, Su, Fa) (CHEG)Pre-or Co: MATH 2584 (need override), (MEEG) Pre: PHYS 2054,MATH 2564		
BIOL 2213/11L Human Physiology (Sp, Fa) Pre: CHEM 1123/21L		
STAT 2823 Biostatistics (Fa, Su, Sp) Pre- or Co-: MATH 2554		
CHEG 2133 or MEEG 3503 Fluid Mechanics (Sp, Su, Fa) (CHEG 2133) Pre- or Co: MATH 2584 (need override) (MEEG 3503) Pre- or Co: MATH 2584; Pre: MEEG 2403		
BMEG 3653/H Biomed. Model. & Num. Methods (Sp) Pre: BMEG 2613, MATH 2574 or 3083, Co: MATH 2584		
BMEG 3824/H Biomolecular Engineering (Sp) Pre: BMEG 3634, CHEM 1123, BIOL 2533		
BMEG 4623/H Biomedical Transport Phenomena (Fa) Pre: BMEG 3653, MATH 2574, MATH 2584, Fluids, Thermo		
BMEG 4813 Biomedical Engineering Design I (Fa) Co: BMEG 4623, Pre (starting Fall 20): BMEG 3801, STAT 2023		
BMEG 4823 Biomed Engineering Design II (Sp) Pre: BMEG 4813		
Science Elective[1] (3 hrs) **Course:**		
BMEG Elective[2] (3 hrs) **Course**		
BMEG Elective[2] (3 hrs) **Course**		
BMEG Elective[2] (3 hrs) **Course**		
US History Requirement[3] **Check one: ❒ HIST 2003 ❒ HIST 2013 ❒ PLSC 2003**		
Humanities[4] **Course:**		
Fine Art[4] **Course:**		
Social Science[4] **Course**		
Social Science[4] **Course**		
Social Science[4] **Course**		

❒ I have filled out the online advising survey for the semester. **Completion of survey is required for removal of advising hold.*

❒ I have discussed my post-graduation plans with my advisor during my appointment.

❒ I have less than 8 hours of "D"s towards BMEG. *Students will not be allowed to graduate with more than 8 hours of Ds

Student Signature: _____ **Date:**_____

Advisor Signature: _____ **Date:**_____

_____**(Office Use)**_____ _____

Hold Removed By: _____ **Date:** _____

[1]Students can select from the following or others approved by department:

BIOL 2323 General Genetics
BIOL 2443 Human Anatomy
BIOL 2013 General Microbiology
BIOL 4263 Cell Physiology
BIOL 4313 Molecular Cell Biology
BIOL 4653 Cancer Biology
BIOL 4713 Basic Immunology

CHEM 2263 Analytical Chemistry
CHEM 2613 Organic Physiological Chemistry
CHEM 3203 Forensic Chemistry
CHEM 3453 Elements of Physical Chemistry
CHEM 3504 Physical Chemistry I
CHEM 3514 Physical Chemistry II
CHEM 3813 Introduction to Biochemistry
CHEM 4813H Honors Biochemistry I
CHEM 4843H Honors Biochemistry II

[2]Students should select from the following list based on their field of interest. Check with department regarding updated list e very semester:

BIOL 4167 Dynamic Models in Biology
BIOL 4233 Genomics and Bioinformatics
BMEG 4403 Biomedical Microscopy
BMEG 4243 Advanced Biomaterials and Biocompatibility
BMEG 4103L/M Nanotechnology Laboratory
BMEG 4213 Cell and Tissue Mechanics
BMEG 4413 Tissue Engineering
BMEG 4513 Biomedical Optics and Imaging
BMEG 4523 Biomedical Data and Image Analysis
BMEG 4713 Cardiovascular Physiology and Devices
BMEG 4973 Regenerative Medicine
BMEG 4983 Genome Engineering and Synthetic Biology
BMEG 470V Special Topics in Biomedical Engineering: *Varies by semester*
BMEG 460V Individual Study *
BMEG 460VH Honors Individual Study *
BMEG 450VH Honors Thesis*
Biomedical engineering-related courses in College of Engineering (4000 or above) approved by department
* Between BMEG 460V, 460VH and 450VH, up to 3 hours total may be counted towards a BMEG elective requirement.

[3]Students should select: HIST 2003 History of the American People to 1877 <u>or</u> HIST 2013 History of the American People 1877 to Present <u>or</u> PLSC 2003 American National Government

[4]Students should consult the Catalog of Studies for a listing of approved Fine Arts, Humanities, and Social Science courses