

Student Name: \_\_\_\_\_ ID: \_\_\_\_\_

Check all that apply:

- Honors
- Pre-Professional (Med/Dent/Vet)
- Pre-Industry
- Pre-Grad School
- Others:

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.

	Courses I have taken (Term/Year)	Courses I will be taking (Term/Year)
<b>GNEG 1111 Introduction to Engineering I (Fa)</b>		
<b>MATH 2554 Calculus I (Sp, Su, Fa)</b>		
<b>CHEM 1103 University Chemistry I (Su, Fa)</b>		
<b>PHYS 2054 University Physics I (Sp, Su, Fa)</b> Prerequisite: MATH 2554; Co-Requisite: Lab component		
<b>ENGL 1013 Composition I (Sp, Su, Fa)</b> If exempt indicate the substitute course(s)		
<b>GNEG 1121 or 1103 Introduction to Engineering II (Sp)</b> Pre: GNEG 1111		
<b>MATH 2564 Calculus II (Sp, Su, Fa)</b> Pre: MATH 2554 (C or better)		
<b>CHEM 1123/21L University Chemistry II (Sp, Su, Fa)</b>		
<b>BIOL 1543/41L Principles of Biology (Sp, Su, Fa)</b>		
<b>ENGL 1023 Technical Composition II (Sp, Su, Fa)</b> If exempt indicate substitute course(s) (3 credit hours)		
<b>BMEG 2614 Introduction to BMEG (Sp,Fa):</b> Pre: GNEG 1121/1103, CHEM 1103, MATH 2554, PHYS 2054		
<b>PHYS 2074 University Physics II (Sp, Su, Fa)</b> Pre: PHYS 2054, MATH 2564; Co: Lab		
<b>MATH 3083 Linear Algebra (Sp, Su, Fa)</b> Pre: MATH 2554 (C or better)		
<b>CHEM 3603/01L Organic Chemistry I (Fa, Su, Sp)</b> Pre: CHEM 1123/21L		
<b>BIOL 2533 Cell Biology (Sp, Fa) – Lab NOT required</b> Pre- or Co: CHEM 1123/21L ; Pre: BIOL 1543, BIOL 1541L		
<b>BMEG 2813 Biomechanical Engineering (Fa,Sp)</b> Pre: BMEG 2614, CHEM 1123, MATH 2564, PHYS 2074		
<b>BMEG 2904 Biomedical Instrumentation (Sp)</b> Pre: BMEG 2614, MATH 2564, PHYS 2074		
<b>MATH 2584 Differential Equations (Sp, Su, Fa)</b> Pre: MATH 2564 (C or better)		
<b>BMEG 3634 Biomaterials (Fa)</b> Pre: BMEG 2813, CHEM 1123, BIOL 1543/41L		
<b>BMEG 3124 Biomedical Signals &amp; Systems (Fa)</b> Pre: BMEG 2904		
<b>BMEG 3801 Clinical Needs Finding (Fa, Sp)</b> Pre: BMEG 2813 or BMEG 2904		

<b>CHEG 2313 or MEEG 2403 Thermodynamics (Sp, Su, Fa)</b> (CHEG)Pre-or Co: MATH 2584 (need override), (MEEG) Pre: PHYS 2054, MATH 2564		
<b>BIOL 2213/11L Human Physiology (Sp, Fa)</b> Pre: CHEM 1123/21L		
<b>STAT 2823 Biostatistics (Sp)</b> Pre- or Co-: MATH 2554		
<b>BMEG 3713 Biofluids (Sp), CHEG 2133 (Sp, Su, Fa) or MEEG 3503 (Su, Fa) Fluid Mechanics</b> (CHEG 2133) Pre: MATH 2584; Pre- or Co: BMEG 2614, MATH 2574 (need override) (MEEG 3503) Pre- or Co: MATH 2584; Pre: MEEG 2403 or CHEG 2313 (BMEG 3713) Pre: MATH 2584, BMEG 2813		
<b>BMEG 3653/H Biomed. Model. &amp; Num. Methods (Sp)</b> Pre: BMEG 2614, MATH 2574 or 3083, Co: MATH 2584		
<b>BMEG 3824/H Biomolecular Engineering (Sp)</b> Pre: BMEG 3634, CHEM 1123, BIOL 2533		
<b>BMEG 4623/H Biomedical Transport Phenomena (Fa)</b> Pre: BMEG 3653, MATH 2574, MATH 2584, Fluids, Thermo		
<b>BMEG 4813 Biomedical Engineering Design I (Fa)</b> Co: BMEG 4623, Pre (starting Fall 20): BMEG 3801, STAT 2823		
<b>BMEG 4823 Biomed Engineering Design II (Sp)</b> Pre: BMEG 4813		
<b>BMEG Science Elective<sup>1</sup> (3 hrs)</b> Course:		
<b>BMEG Technical Elective<sup>2</sup> (3 hrs)</b> Course:		
<b>BMEG Technical Elective<sup>2</sup> (3 hrs)</b> Course:		
<b>BMEG Technical Elective<sup>2</sup> (3 hrs)</b> Course:		
<b>US History Requirement<sup>3</sup></b> Check one: <input type="checkbox"/> HIST 2003 <input type="checkbox"/> HIST 2013 <input type="checkbox"/> PLSC 2003		
<b>Humanities<sup>4</sup></b> Course:		
<b>Fine Art<sup>4</sup></b> Course:		
<b>Social Science<sup>4</sup></b> Course:		
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- 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 Comp I and/or Comp II exemptions and I have identified substitutes courses.
- 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: \_\_\_\_\_

**<sup>1</sup>Students can select from the following or others approved by department:**

BIOL 2323 General Genetics	CHEM 2263 Analytical Chemistry
BIOL 2443 Human Anatomy	CHEM 2613 Organic Physiological Chemistry
BIOL 2013 General Microbiology	CHEM 3203 Forensic Chemistry
BIOL 4263 Cell Physiology	CHEM 3453 Elements of Physical Chemistry
BIOL 4313 Molecular Cell Biology	CHEM 3504 Physical Chemistry I
BIOL 4653 Cancer Biology	CHEM 3514 Physical Chemistry II
BIOL 4713 Basic Immunology	CHEM 3613/11L Organic Chemistry II
	CHEM 3813 Introduction to Biochemistry
	CHEM 4813H Honors Biochemistry I
	CHEM 4843H Honors Biochemistry II

**<sup>2</sup>Students should select from the following list based on their field of interest. Check with department regarding updated list every semester:**

BIOL 4167 Dynamic Models in Biology  
BIOL 4233 Genomics and Bioinformatics  
BMEG 4253 Biologics: The Next Generation Therapeutics and Their Purifications  
BMEG 4403 Biomedical Microscopy  
BMEG 4243 Advanced Biomaterials and Biocompatibility  
BMEG 4213 Cell and Tissue Mechanics  
BMEG 4413 Tissue Engineering  
BMEG 4513 Biomedical Optics and Imaging  
BMEG 4523 Biomedical Data and Image Analysis  
BMEG 4593 Biomedical Innovations for Global Impact  
BMEG 4713 Cardiovascular Physiology and Devices  
BMEG 4903 Entrepreneurial Bioengineering  
BMEG 4973 Regenerative Medicine  
BMEG 4983 Genome Engineering and Synthetic Biology  
BMEG 470V Biochemical Kinetics and Systems 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.

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

**<sup>4</sup>Students should consult the Catalog of Studies for a listing of approved State Minimum Core Fine Arts, Humanities, and Social Science courses.** See link below.

**A couple of useful UARK sites**

Transfer Course Equivalency: <https://courseequivalency.uark.edu/>

If you are planning on taking and transferring a course from another institution (ex. summer class at a community college), this site can be used to determine what the course will transfer in as. It has most 2 and 4 year colleges in AR and neighboring states.

State Minimum Core: <https://catalog.uark.edu/undergraduatecatalog/gened/stateminimum/>

When selecting a Fine Art (1), Humanity (1), and Social Science (3) courses in order to meet the state minimum core, make sure students are ONLY selecting from the approved courses indicated on this list. There are no overrides or exceptions.