

Student Name: _____ ID: _____

Check all that apply:

Expected Graduation Date: _____

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

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

*Students should confirm pre- and co-requisite requirements for non-BMEG courses via the University of Arkansas course catalog

	Courses I have taken (Term/Year)	Courses I will be taking (Term/Year)
GNEG 11101 Introduction to Engineering I (Fa) Pre- or Co-: See catalog		
MATH 24004 Calculus I (Sp, Su, Fa) Pre- or Co-: See catalog		
CHEM 14103 University Chemistry I (Su, Fa) Pre- or Co-: See catalog		
PHYS 20304 University Physics I (Sp, Su, Fa) Pre- or Co-: See catalog		
ENGL 10103 Composition I (Sp, Su, Fa) If exempt indicate the substitute course(s)		
GNEG 11201 or 11003 Introduction to Engineering II (Sp) Pre: GNEG 11101		
MATH 25004 Calculus II (Sp, Su, Fa) Pre- or Co-: See catalog		
CHEM 14203 / 14201 University Chemistry II (Sp, Su, Fa) Pre- or Co-: See catalog		
BIOL 10103 / 10101 Principles of Biology (Sp, Su, Fa) Pre- or Co-: See catalog		
ENGL 10203 Technical Composition II (Sp, Su, Fa) If exempt indicate substitute course(s) (3 credit hours)		
BMEG 26104 Introduction to BMEG (Sp,Fa): Pre: GNEG 11201 / 11003, CHEM 14103, MATH 24004 (C or better), Co: PHYS 20304		
PHYS 20404 University Physics II (Sp, Su, Fa) Pre- or Co-: See catalog		
MATH 30803 Linear Algebra (Sp, Su, Fa) Pre- or Co-: See catalog		
CHEM 36053 / 36001 Organic Chemistry I (Fa, Su, Sp) Pre- or Co-: See catalog		
BIOL 25473 Cell Biology (Sp, Fa) – Lab NOT required Pre- or Co-: See catalog		
BMEG 28103 Biomechanical Engineering (Fa,Sp) Pre: BMEG 26104, CHEM 14203, MATH 25004, Co: PHYS 20404		
BMEG 29004 Biomedical Instrumentation (Sp) Pre: BMEG 26104, MATH 25004, Co: PHYS 20404		
MATH 25804 Differential Equations (Sp, Su, Fa) Pre- or Co-: See catalog		
BMEG 36304 Biomaterials (Fa) Pre: BMEG 28103, CHEM 14203, BIOL 10103 / 10101		
BMEG 31204 Biomedical Signals & Systems (Fa) Pre: BMEG 29004		
BMEG 38001 Clinical Needs Finding (Fa, Sp) Pre: BMEG 28103 or BMEG 29004		

CHEG 23103 or MEEG 24003 Thermodynamics (Sp, Su, Fa) (CHEG)Pre-or Co: MATH 25804 (need override), (MEEG) Pre: PHYS 20304,MATH 25004		
BIOL 24103 /24101 Human Physiology (Sp, Fa) Pre- or Co-: See catalog		
STAT 28233 Biostatistics (Sp) OR MATH 21003 Principles of Statistics (Fa,Sp,Su) Pre- or Co-: See catalog		
BMEG 39103 Biofluids (Sp), CHEG 21303 (Sp, Su, Fa) or MEEG 35003 (Su, Fa) Fluid Mechanics (CHEG 21303) Pre: MATH 25804; Pre- or Co: BMEG 26104, MATH 26004 (need override) (MEEG 35003) Pre- or Co: MATH 25804; Pre: MEEG 24003 or CHEG 23103 (BMEG 39103) Pre: MATH 25804, BMEG 28103		
BMEG 36503 /H Biomed. Model. & Num. Methods (Sp) Pre: BMEG 26104, MATH 26004 or 30803, Co: MATH 25804		
BMEG 38204 /H Biomolecular Engineering (Sp) Pre: CHEM 14203, Co: BIOL 25473, BMEG 36304		
BMEG 46203 /H Biomedical Transport Phenomena (Fa) Pre: Fluids, Thermo (see above options)		
BMEG 48103 Biomedical Engineering Design I (Fa) Pre: BMEG 38001, STAT 28233 OR MATH 21003, Co: BMEG 46203		
BMEG 48203 Biomed Engineering Design II (Sp) Pre: BMEG 48103		
BMEG Science Elective¹ (3 hrs) Course:		
BMEG Technical Elective² (3 hrs) Course:		
BMEG Technical Elective² (3 hrs) Course:		
BMEG Technical Elective² (3 hrs) Course:		
US History Requirement³ Check one: <input type="checkbox"/> HIST 20003 <input type="checkbox"/> HIST 20103 <input type="checkbox"/> PLSC 20003		
Humanities⁴ Course:		
Fine Art⁴ Course:		
Social Science⁴ Course:		
Social Science⁴ Course:		
Social Science⁴ 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 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: _____

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

BIOL 23373 General Genetics	CHEM 22673 Analytical Chemistry
BIOL 24003 Human Anatomy	CHEM 26103 Organic Physiological Chemistry
BIOL 20003 General Microbiology	CHEM 32003 Forensic Chemistry
BIOL 42673 Cell Physiology	CHEM 34603 Elements of Physical Chemistry
BIOL 43173 Molecular Cell Biology	CHEM 35004 Physical Chemistry I
BIOL 45673 Cancer Biology	CHEM 35204 Physical Chemistry II
BIOL 47183 Basic Immunology	CHEM 36203 / 36201 Organic Chemistry II
	CHEM 38103 Introduction to Biochemistry
	CHEM 481H3 Honors Biochemistry I
	CHEM 484H3 Honors Biochemistry II

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

BIOL 41673 Dynamic Models in Biology
BIOL 42373 Genomics and Bioinformatics
INEG 24103 Engineering Economic Analysis
BMEG 44003 Biomedical Microscopy
BMEG 42403 Advanced Biomaterials and Biocompatibility
BMEG 42103 Cell and Tissue Mechanics
BMEG 44103 Tissue Engineering
BMEG 45103 Biomedical Optics and Imaging
BMEG 45203 Biomedical Data and Image Analysis
BMEG 45903 Engineering Global Health
BMEG 47103 Cardiovascular Physiology and Devices
BMEG 49003 Entrepreneurial Bioengineering
BMEG 49703 Regenerative Medicine
BMEG 49803 Genome Engineering and Synthetic Biology
BMEG 4700V Special Topics in Biomedical Engineering: *Varies by semester*
BMEG 4600V Individual Study *
BMEG 460HV Honors Individual Study *
BMEG 450HV Honors Thesis*

Biomedical engineering-related courses in College of Engineering (4000 or above) approved by department

* Between BMEG 4600V, 460HV and 450HV, up to 3 hours total may be counted towards a BMEG elective requirement.

³Students should select: HIST 20003 History of the American People to 1877 or HIST 20103 History of the American People 1877 to Present or PLSC 20003 American National Government

⁴Students 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.

General Education Requirements: <https://first-year-engineering.uark.edu/StateMinimumCore.pdf>

Courses listed in the above link will allow students to complete requirements for both the State Minimum Core and General Education requirements. Completion of both is required for non-transfer students / students without other transfer credits.