

Biological Engineering Undergraduate Program

Fall Freshman

BENG 1000*	Intro to Undergraduate Research	1	F
Biol 1610*	Biology I	4	F
Chem 1210*	Prin of Chemistry I	4	FSpSu
Chem 1215*	Prin of Chemistry Lab I	1	FSpSu
Math 1210*	Calculus I	4	FSpSu
Gen Ed	Creative Arts (BCA)	3	
	Total	17	

Fall Sophomore

BENG 2330*	Properties of Biomaterials	3	F
	Intro Computer Prog. For Civil & Environmental Engr.	2	F
CEE 2870 *			
Chem 2300*	Principles of Organic Chem	3	F
Chem 2315*	Org Chem Lab I	1	F
ENGR 2010*	Statics	3	FSp
Math 2250*	Linear Algebra & ODEs	4	FSpSu
	Total	16	

Fall Junior

BENG 3200	Intro to Unit Operations	3	F
BENG 3870	Biological ENGR Design I	1	F
BENG 3500	Fluid Mechanics for BENG	3	F
Stat 3000	Statistics for Scientists	3	FSpSu
Gen Ed	Social Science (BSS)	3	
Gen Ed	Humanities (BHU)	3	
	Total	16	

Fall Senior

BENG 4890	Biological ENGR Design III	3	F
BENG 5020	Modeling Biological Systems	3	F
BENG Elect		3	FSp
ENGR Elect		3	
Gen Ed	Depth (DHA)	2-3	
	Total	14-15	

Spring Freshman

BENG 1880*	Quantitative Biological Systems	3	Sp
ENGR 2270*	Comp ENGR Drafting	2	FSp
Math 1220*	Calculus II	4	FSpSu
Phys 2210*	General Phys-Sci	4	FSpSu
Phys 2215*	General Phys-Sci Lab	1	FSpSu
Engl 2010*	Intermediate Writing	3	FSpSu
	Total	17	

Spring Sophomore

BENG 2400*	Thermodynamics for BENGs	3	Sp
Biol 3300	General Microbiology	4	FSp
ENGR 2140*	Strength of Materials	3	FSpSu
ENGR 2450*	Numerical Methods	3	Sp
ENGR 2210	Fund Electronics for Engineers	3	FSpSu
	Total	16	

Spring Junior

BENG 3000	Instrumentation for Biol. Syst.	3	Sp
BENG 3670	Transport Phenomena	3	Sp
BENG 4880	Biological ENGR Design II	3	Sp
Chem 3700	Intro Biochemistry	3	Sp
Chem 3710	Intro Biochem Lab	1	Sp
Tech Elect		3	
	Total	16	

Spring Senior

Tech Elect		6	
BENG Elect		3	FSp
Gen Ed	Depth (DSS)	3	
Gen Ed	American Institutions (BAI)	3	
	Total	15	

Total Program Requirements 128

English 1010 is required by Utah State University but is not included in the dept. program because most BE students CLEP or AP this course upon enrollment at USU.

*Required for admission to the Professional Program. GPA in these classes @ USU (less Engl 1010 & 2010) must be ≥ 2.3 . A student can repeat at most three courses, including multiple repeats of the same course, in order to satisfy the PEP eligibility requirements.

Passing the "**Fundamentals of Engineering Exam**" is part of the degree requirements. Exam must be taken **before** your last academic semester at USU in order for results to reach us in time for graduation. Registration information: www.ncees.org

Some course numbers have changed. Please note: this list is subject to change.

Questions? Contact our Advising Center: engineering.advising@usu.edu, www.engineering.usu.edu, (435) 797-2705

4/30/2015