

The following is a sample **5-year plan** with prerequisites for medical and dental school added. Please note that student-specific plans may differ. Consult with your academic advisor for your specific plan.

For more information on major requirements and technical elective courses, go to catalog.usu.edu and select "Degree Maps."

THE FOLLOWING PLAN IS FOR BIOLOGICAL ENGINEERS WORKING TO SATISFY PRE-HEALTH REQUIREMENTS

PRE-PROFESSIONAL PROGRAM

FRESHMAN FALL			FRESHMAN SPRING			SOPHOMORE FALL			SOPHOMORE SPRING		
COURSE	CR ⁺	SEM ⁺	COURSE	CR ⁺	SEM ⁺	COURSE	CR ⁺	SEM ⁺	COURSE	CR ⁺	SEM ⁺
BENG 1000* Intro to Undergrad. Research	1	F	BIOL 1620# Biology 2	3	Sp	CHEM 2310* Organic Chemistry 1	4	F	CHEM 2320# Organic Chemistry 2	4	Sp
BIOL 1610* + 1615* Biology 1 + Lab	4	F	BIOL 1625# Biology 2 Lab	1	Sp	CHEM 2315* Organic Chemistry 1 Lab	1	F	CHEM 2325# Organic Chemistry 2 Lab	1	Sp
CHEM 1210* Chemistry 1	4	FSp	BENG 1880* Quantitative Biol. Systems	3	Sp	MATH 2250* Linear Algebra & Diff. Eq.	4	FSpSu	ENGR 2270 Comp. Engineering Drafting	2	FSp
CHEM 1215* Chemistry 1 Lab	1	FSp	CHEM 1220# Chemistry 2	4	FSp	PHYS 2210* Physics 1	4	FSpSu	PHYS 2220# Physics 2	4	FSpSu
MATH 1210* Calculus 1	4	FSpSu	CHEM 1225# Chemistry 2 Lab	1	FSp	PHYS 2215* Physics 1 Lab	1	FSpSu	PHYS 2225# Physics 2 Lab	1	FSpSu
ENGL 1010 Intro to Writing	3	FSpSu	MATH 1220* Calculus 2	4	FSpSu	GENERAL EDUCATION Breadth Course (BAI)	3	FSpSu	GENERAL EDUCATION Breadth Course (BSS)	3	FSpSu
TOTAL CREDITS 17			TOTAL CREDITS 16			TOTAL CREDITS 17			TOTAL CREDITS 15		

JUNIOR FALL			JUNIOR SPRING		
COURSE	CR ⁺	SEM ⁺	COURSE	CR ⁺	SEM ⁺
BENG 2330* Properties of Biomaterials	3	F	BENG 2400* Thermodynamics	3	Sp
ENGL 2010* Intermediate Writing	3	FSpSu	BIOL 2420# Human Physiology	4	FSpSu
ENGR 2010* Statics	3	FSp	CHEM 3700 Biochemistry 1	3	Sp
ENGR 2210 Fundamental Electronics	3	FSpSu	CHEM 3710 Biochemistry 1 Lab	1	Sp
GENERAL EDUCATION Breadth Course (BCA)	3	FSpSu	ENGR 2140* Strength of Materials	3	FSpSu
TOTAL CREDITS 15			TOTAL CREDITS 14		

Plan continued on back →

PRE-PROFESSIONAL PROGRAM (PPRU) REQUIREMENTS

- Complete courses marked with an asterisk (*)
- No more than three total repeats for PPRU courses
- Minimum 2.3 PPRU GPA
- Minimum grade of C- for PPRU courses

⁺ Abbreviations: (CR) Credits • (SEM) Semester • (F) Fall • (Sp) Spring • (Su) Summer



COLLEGE of
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PROFESSIONAL PROGRAM

SENIOR FALL			SENIOR SPRING			2 ND SENIOR FALL			2 ND SENIOR SPRING		
COURSE	CR ⁺	SEM ⁺	COURSE	CR ⁺	SEM ⁺	COURSE	CR ⁺	SEM ⁺	COURSE	CR ⁺	SEM ⁺
BENG 3200 Intro to Unit Operations	3	F	BENG 3000 Instrumentation for Biol Syst.	3	Sp	BENG 4890 Biol. Engr. Design 3	3	F	BENG ELECTIVE	3	FSp
BENG 3500 Fluid Mechanics	3	F	BENG 3670 Transport Phenomena	3	Sp	BENG 5020 Biol. Modeling and Controls	3	F	ENGR ELECTIVE	3	FSp
BENG 3870 Biol. Engr. Design 1	1	F	BENG 4880 Biol. Engr. Design 2	3	Sp	BENG ELECTIVE	3	FSp	HEALTH ELECTIVE[^] Health Profession Elective	3	FSpSu
CS 1400 Computer Science 1	4	FSpSu	BIOL 3300 General Microbiology	4	FSp	HEALTH ELECTIVE[^] Health Profession Elective	3	FSpSu	HEALTH ELECTIVE[^] Health Profession Elective	4	FSpSu
STAT 3000 Statistics for Scientists	3	FSpSu	ENGR 2450 Numerical Methods	3	Sp	GENERAL EDUCATION Depth Course (DSS)	3	FSpSu	GENERAL EDUCATION Depth Course (DHA)	2-3	FSpSu
GENERAL EDUCATION Breadth Course (BHU)	3	FSpSu	FUND. OF ENGR. EXAM (FE) Graduation Requirement								
TOTAL CREDITS 17			TOTAL CREDITS 16			TOTAL CREDITS 14			TOTAL CREDITS 15-16		

TOTAL CREDITS REQUIRED **157-158**

PROFESSIONAL PROGRAM (PEP) REQUIREMENTS

- No more than three total repeats for PEP courses
- Minimum 2.0 PEP GPA
- Minimum grade of C- for PEP courses

PRE-HEALTH REQUIREMENTS

- ^(#) Courses marked with a pound sign (#) are required for entrance to medical/dental schools and are not required for this degree.
- ^(^) Placeholder for students to add any additional prerequisites required by specific schools the student has chosen to apply to. Common courses include BIOL 2320, 3060, 4600, 5210 600, and 5210. These are not required for graduation.
- Contact Yvonne Kobe (Pre-health Advisor) for additional information on requirements/prerequisites for medical/dental school: 435-797-3373 or yvonne.kobe@usu.edu

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