



College of Engineering
UtahStateUniversity

- The following is a sample 4-year plan. Please note that student-specific plans may differ. Consult with your academic advisor for your specific plan.
- For more information on major requirements and required elective courses, go to catalog.usu.edu and select "Degree Maps."
- Plan designed for students working less than 20 hours per week.

PRE-PROFESSIONAL PROGRAM

FRESHMAN FALL

COURSE	CR ⁺	SEM ⁺
BENG 1000* Intro to Undergrad. Research	1	F
BIOL 1610* Biology 1	3	F
BIOL 1615* Biology 1 Lab	1	F
CHEM 1210* Chemistry 1	4	FSpSu
CHEM 1215* Chemistry 1 Lab	1	FSpSu
MATH 1210* Calculus 1	4	FSpSu
GENERAL EDUCATION Breadth Course (BCA)	3	FSpSu
TOTAL CREDITS	17	

FRESHMAN SPRING

COURSE	CR ⁺	SEM ⁺
BENG 1880* Quantification Biol. Processes	3	Sp
BENG 1200* SolidWorks	2	Sp
MATH 1220* Calculus 2	4	FSpSu
PHYS 2210* Physics 1	4	FSpSu
PHYS 2215* Physics 1 Lab	1	FSpSu
ENGL 2010* Intermediate Writing	3	FSpSu
TOTAL CREDITS	17	

SOPHOMORE FALL

COURSE	CR ⁺	SEM ⁺
BENG 2330* Properties of Biomaterials	3	F
CHEM 2300* Principles of Organic Chem.	3	F
CHEM 2315* Organic Chemistry 1 Lab	1	F
ENGR 2010* Statics	3	FSpSu
MATH 2250* Linear Algebra & Diff. Eq.	4	FSpSu
GENERAL EDUCATION Breadth Course (BAI)	3	FSpSu
TOTAL CREDITS	17	

SOPHOMORE SPRING

COURSE	CR ⁺	SEM ⁺
BENG 2400* Thermodynamics	3	Sp
ENGR 2140* Mechanics of Materials	3	FSpSu
ENGR 2210 Fundamental Electronics	3	FSpSu
CHEM 3700 Introductory Biochemistry	3	Sp
CHEM 3710 Introductory Biochemistry Lab	1	Sp
GENERAL EDUCATION Breadth Course (BSS)	3	FSpSu
TOTAL CREDITS	16	

PROFESSIONAL PROGRAM

JUNIOR FALL

COURSE	CR ⁺	SEM ⁺
BENG 3200 Intro to Unit Operations	3	F
BENG 3500 Fluid Mechanics in Biol. Engr.	3	F
CS 1400 Computer Science 1	4	FSpSu
STAT 3000 Statistics for Scientists	3	FSpSu
GENERAL EDUCATION Breadth Course (BHU)	3	FSpSu
TOTAL CREDITS	16	

JUNIOR SPRING

COURSE	CR ⁺	SEM ⁺
BENG 3000 Instrumentation for Bio. Sys.	3	Sp
BENG 3670 Transport Phenomena	3	Sp
BENG 3870 Biol. Engr. Design 1	1	Sp
ENGR 2450 Numerical Methods	3	Sp
ENGR 3080 Tech. Comm. for Engineers	3	FSp
GENERAL EDUCATION Depth Course (DHA)	2	FSpSu
TOTAL CREDITS	15	

SENIOR FALL

COURSE	CR ⁺	SEM ⁺
BENG 4880 Biol. Engr. Design 2	3	F
BENG 5020 Biol. Modeling and Controls	3	F
BENG ELECTIVE See approved list	3	FSp
BIOL 3300 General Microbiology	4	FSp
TECHNICAL ELECTIVE See approved list	2	FSp
FUND. OF ENGR. EXAM (FE) Graduation Requirement		
TOTAL CREDITS	15	

SENIOR SPRING

COURSE	CR ⁺	SEM ⁺
BENG 4890 Biol. Engr. Design 3	3	Sp
BENG ELECTIVE See approved list	3	FSp
TECHNICAL ELECTIVE See approved list	3	FSp
ENGR ELECTIVE See approved list	3	FSp
GENERAL EDUCATION Depth Course (DSS)	3	FSpSu
TOTAL CREDITS	15	

TOTAL CREDITS REQUIRED 128

UNIVERSITY REQUIREMENTS

English 1010 is a University requirement and is a prerequisite for English 2010. An English ACT score of 29+ or an SAT verbal score of 640+ will fulfill the English 1010 requirement.

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

PROFESSIONAL PROGRAM (PP) REQUIREMENTS

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

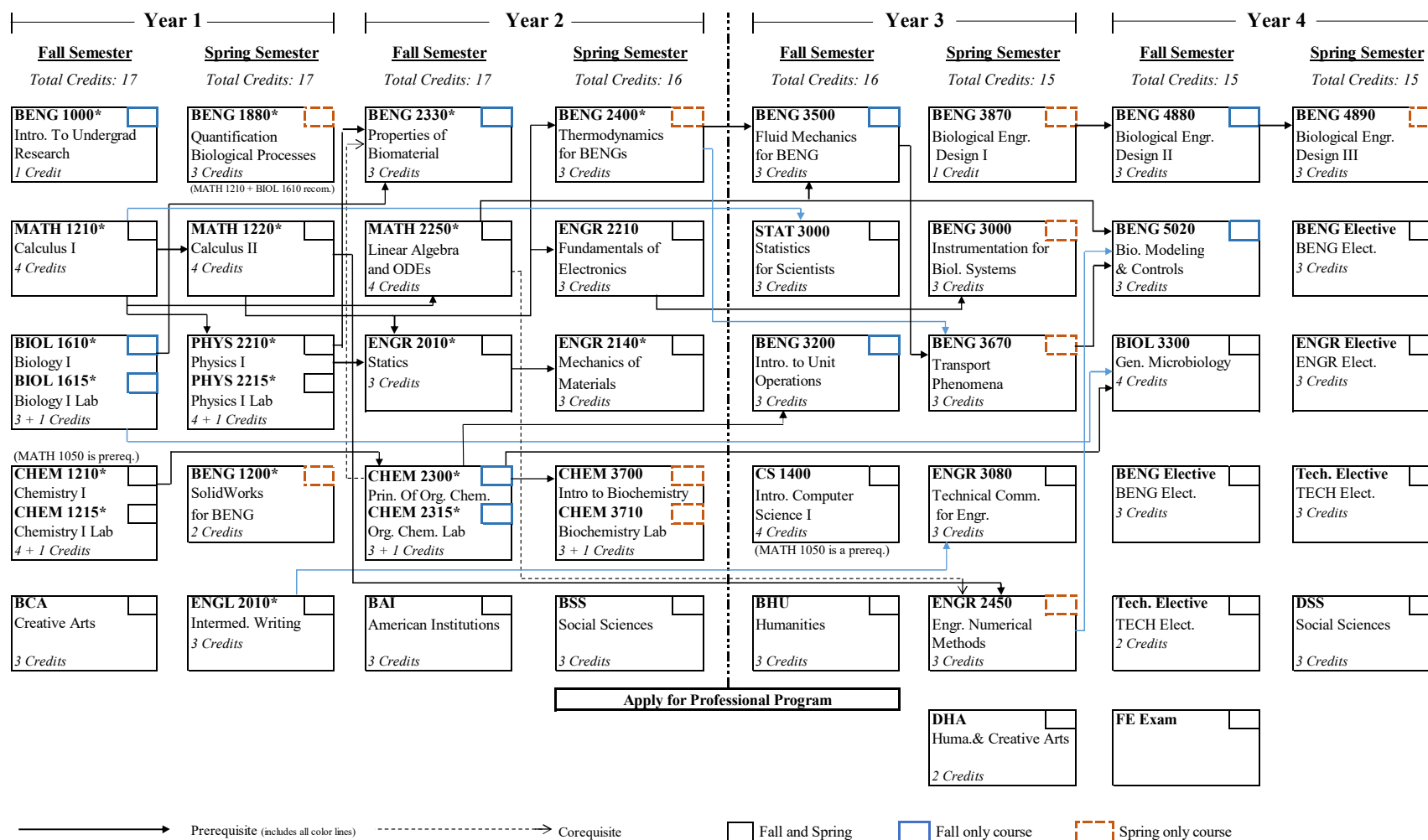
⁺Abbreviations: (CR) Credits • (SEM) Semester • (F) Fall • (Sp) Spring • (Su) Summer

ACADEMIC YEAR
2023-24



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Any discrepancy between this chart and the 2023-24 General Catalog is resolved in favor of the General Catalog.



* Required for admission to Professional Program.

ACADEMIC YEAR
2023-24