






- Assist CSU student with requirements.
- Provide information on transfer requirements.
- In order to fulfill requirements, students must complete the process of transferring in institutional requirements.


  
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## Dual Degree Pathway and Biomedical Engineering

### Sterling College & Wichita State

Freshman – 1st Semester – Fall (14.0 credit hours)			
Wichita State University Equivalent	Sterling College Course	Hours	Notes
ENGL 101 College English I	EN 101 College Composition I	3	
BIOL 2008	BI 170/Lab Biology in Experiments	4	
CHEM 211 General Chemistry I	CH 151/Lab General Chemistry I	4	
REL 115 New Testament (General Humanities)	TM 103	3	
J ASI 2000 Elective	GD 105 Foundations of Servant Leadership (required for BS degree at Sterling College)	1	
REL 2000 Elective	GD 109 Chapel/Convocation (required for BS degree at Sterling College)	0	
Freshman – 2nd Semester – Spring (14.0 credit hours)			
ENGL 102 College English II	EN 102 College Composition II	3	
COMM 111 Public Speaking	CI 101 Public Speaking	3	
MATH 242 Calculus I	MA 210	5	
CHEM 212 General Chemistry II	CH 152/Lab General Chemistry II	4	
REL 2000 Elective	TM 104 General Convocation (required for BS degree at Sterling College)	0	
Freshman – 3rd Semester – Fall (14.0 credit hours)			
REL 110 Old Testament	TM 102 Old Testament	3	
Sophomore – 1st Semester – Fall (14.0 credit hours)			
Credit awarded after successful completion of PH 210, PH 220, PH 211 & PH 221	PH 210 Phys	5	
Credit awarded after successful completion of PH 216, PH 226, PH 220, PH 211 & PH 221			
MATH 243 Calculus II	MA 210 C – Calculus II	5	
CHEM 533 Elem Organic Chemistry or Education (Social Recreational) ECON 202 Principles of Macroeconomics OR SOC 111 Intro to Sociology	CH 252 Intro Organic Chem	3 or 4	
REL 2000 Elective	GD 190 Chapel/Convocation (Required for BS degree at Sterling College)	0	

<b>Sophomore – 1st Semester</b>	
CHEM 661 Introductory Biochemistry	CH 265 Biochemistry
<b>Sophomore – 2nd Semester</b>	
General Education	Approved General Education (FINA.A. as found on the WSU Transfer Table)
General Education	Approved General Education (S&BS) as found on the WSU Transfer Equivalency Table
Recommended ECON 201 Principles of Macroeconomics	Recommended BU 200
OR SOC 111 Intro to Sociology	Psychology OR BS 115 Prince of Sociology
Credit awarded after successful completion of PH 240, PH 220, PH 211 & PH 230	PH 211 Physics II
PHYS 313 Physics for Scientists I	
PHYS 315 University Physics Lab I	
PHYS 314 Physics for Scientists II	
PHYS 316 University Physics Lab II	
REL 190 Elective	TM 366 Basic Christian Doctrine (required for BS degree at Sterling College)
REL 200 Elective	GR 190 Chapel/Religious Education (required for BS degree at Sterling College)
<b>Junior</b>	
CHEM 533 Organic Chemistry OR General Education (Social Sciences)	CH 232 Intro Organic Chem
Recommended ECON 201	
Macroeconomics OR PSY 111 General Psychology	PSY 111 General Psychology
OR SOC 111 Intro to Sociology	PH 111 General Psychology
General Education (Humanities or S&BS) Recommended: HIST 335 History of Kansas	General Education (Humanities or S&BS) Recommended: HIST 335 History of Kansas
OR ECON 202 Principles of Microeconomics	322 Kansas History, Govt, OR BU 201
225 Developmental Psychology	Microeconomics
BIOL 2000 Elective – BME Open Elective	Developmental Psychology
MATH 555 Differential Equations	BI 263/Lab Genetics (Required for BS degree at Sterling College)
Engineering Prob	
HPS 2000 Elective	ES 101 Concepts of Physics: Energy/Matter (Required for BS degree at Sterling College)
REL 2000 Elective	GR 190 Chapel/Religious Education (required for BS degree at Sterling College)
<b>(If taken at Sterling College)</b>	
CHEM 661 Introductory Biochemistry	CH 265 Biochemistry

Junior – 1 <sup>st</sup> Semester-Spring (taken at WSU) 16 Credit Hours		
<b>Wichita State University Requirements:</b>		
BME 471 Introduction to Biomechanics		
BIOL 210 General Biology I	4	
BME 335 Biomedical Computer Applications	3	
BME 115 Biomedical Engineering Seminar	1	
IME 254 Engineering Probability and Statistics I OR MATH 55E Differential Equations	3	
Engineering Technical Elective (4 credits)	4	
Engineer of 2020 (1-6C)		
Junior – SUMMER SEMESTER (must be completed prior to 2020)		
AE 223 Statics	3	
EE 202 Circuits I	4	
Junior – 2 <sup>nd</sup> Semester-Fall (taken at WSU) 17 Credit Hours		
BME 452 Biomechanics	3	
BME 482 Design of Biodevices	3	
BME 585 Capstone Design I	3	
BIOL 223 Human Anatomy and Physiology	3	
ME 398 Thermodynamics	3	
Senior – 1 <sup>st</sup> Semester-Spring (taken at WSU) 17 Credit Hours		
BME 595 Capstone Design II	3	
BME 480 Bioinstrumentation	3	
Engineering Technical Elective	3	
Engineering Technical Elective	3	
Engineer of 2020 (2-6S)		
Senior – 2 <sup>nd</sup> Semester-Fall (taken at WSU) 16 Credit Hours		
BME 462 Introduction to Bi fluids	3	
IME 235 Engineering Economy	3	
PHIL 385 Engineering Ethics	3	
Engineering Technical Elective	3	
Engineer of 2020 (3-6S)		

**Courses transferring to Spring/Summer from other**

**Bachelors of Science Degree in**

**BS degree requirements for Biomedical Engineering at Wichita State University**