Sample 4-year Course Schedule for Engineering

G.E. (Intro to New Testament) 4 P.E. (Fit for Life) 1 Units this semester 17 SOPHOMORE YEAR - Fall Semester Units General Chemistry + Lab 4 Multivariable Calculus 4 G.E. (Christian Doctrine) 4 G.E. (Writing for the Liberal Arts) 4 Mechanics of Materials 3 Units this semester 19 ENGINEERING MAYTERM Units	NA NA NA Coreq Phy I MA 08 or precalc NA NA NA Calc II NA NA Statics Chanics of Materials Statics Dynamics Dynamics NA NA Junior status	FIRST YEAR - Spring Semester Statics & Engineering Software General Physics II General Physics II Lab Calculus II G.E. (Intro to Old Testament) P.E. Units this semester SOPHOMORE YEAR - Spring Semester Dynamics Circuits & Electronics Electronics Lab Linear Algebra & Differential Equ. G.E. (World History) Units this semester JUNIOR YEAR - Spring Semester Fluid Mechanics Junior Design: interdisciplinary (Service-Learning) G.E. (Common Inquiries #1 & #5)	Units 3 4 1 4 4 1 17 4 4 4 4 10 4 16 Units 3	Calc I, Physics Calc I coreq Phy II MA 09 (Calc I) NA NA Statics Phy II & Calc I coreq Circuits Calc II NA Thermo
General Physics I (Common Inquiries #2) General Physics I Lab (W.I.) General Common Inquiries #4; also QAR) General Chemistry + 4 General Chemistry General Chemistry + Lab Multivariable Calculus General Chemistry Homits General Chemistry Homits Homits Homits Homits	Coreq Phy I MA 08 or precalc NA NA NA NA Calc II NA NA Statics Chanics of Materials Statics Dynamics Dynamics NA NA NA	General Physics II General Physics II Lab Calculus II G.E. (Intro to Old Testament) P.E. Units this semester SOPHOMORE YEAR - Spring Semester Dynamics Circuits & Electronics Electronics Lab Linear Algebra & Differential Equ. G.E. (World History) Units this semester JUNIOR YEAR - Spring Semester Fluid Mechanics Junior Design: interdisciplinary (Service-Learning) G.E. (Common Inquiries #1 & #5)	4 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	coreq Phy II MA 09 (Calc I) NA NA Statics Phy II & Calc I coreq Circuits Calc II NA Thermo
Seneral Physics I Lab (W.I.) Calculus I (Common Inquiries # 4; also QAR) Calc. (Intro to New Testament) Calc. (Fit for Life) Cal	MA 08 or precalc NA NA NA NA NA Calc II NA NA Statics Chanics of Materials Statics Dynamics Dynamics NA NA NA	General Physics II Lab Calculus II G.E. (Intro to Old Testament) P.E. Units this semester SOPHOMORE YEAR - Spring Semester Dynamics Circuits & Electronics Electronics Lab Linear Algebra & Differential Equ. G.E. (World History) Units this semester JUNIOR YEAR - Spring Semester Fluid Mechanics Junior Design: interdisciplinary (Service-Learning) G.E. (Common Inquiries #1 & #5)	4 4 1 1 17 4 4 4 0 4 16 Units 3	MA 09 (Calc I) NA NA Statics Phy II & Calc I coreq Circuits Calc II NA
Calculus I (Common Inquiries # 4; also QAR) G.E. (Intro to New Testament) G.E. (Fit for Life) Julits this semester JULITS COPHOMORE YEAR - Fall Semester COPHOMORE YEAR - Fall Semester JULITS COPHOMORE YEAR - Fall Semester Units General Chemistry + Lab Multivariable Calculus G.E. (Christian Doctrine) J.E. (Writing for the Liberal Arts) Mechanics of Materials Julits this semester JULITS Materials Engineering Manufacturing Processes Julits this semester JULITS Control Systems G.E. (Foreign Language) G.E. (Philosophical Reflections) JULITS	NA NA NA Calc II NA NA Statics Chanics of Materials Statics Dynamics Dynamics NA NA NA	Calculus II G.E. (Intro to Old Testament) P.E. Units this semester SOPHOMORE YEAR - Spring Semester Dynamics Circuits & Electronics Electronics Lab Linear Algebra & Differential Equ. G.E. (World History) Units this semester JUNIOR YEAR - Spring Semester Fluid Mechanics Junior Design: interdisciplinary (Service-Learning) G.E. (Common Inquiries #1 & #5)	4 1 17 4 4 0 4 4 16	NA NA NA Statics Phy II & Calc I coreq Circuits Calc II NA
S.E. (Intro to New Testament) P.E. (Fit for Life) Juits this semester Juits this semester Junits this semester SOPHOMORE YEAR - Fall Semester General Chemistry + Lab Multivariable Calculus Juits and Calculus Juits and Calculus Juits and Calculus Juits this semester Junits this semester Junits this semester Junits and Calculus Junits this semester Junits this semester Junits and Calculus Junits and Calcul	NA NA NA Calc II NA NA Statics Chanics of Materials Statics Dynamics Dynamics NA NA NA	P.E. Units this semester SOPHOMORE YEAR - Spring Semester Dynamics Circuits & Electronics Electronics Lab Linear Algebra & Differential Equ. G.E. (World History) Units this semester JUNIOR YEAR - Spring Semester Fluid Mechanics Junior Design: interdisciplinary (Service-Learning) G.E. (Common Inquiries #1 & #5)	1 17 4 4 4 0 4 16 Units 3	Statics Phy II & Calc I coreq Circuits Calc II NA
P.E. (Fit for Life) Inits this semester Inits this semester Inits this semester Inits Sophomore YEAR - Fall Semester Inits Semeral Chemistry + Lab Aultivariable Calculus Inits (Christian Doctrine) Inits (Christian Doct	NA Calc II NA NA Statics Schanics of Materials Statics Dynamics Dynamics NA NA	P.E. Units this semester SOPHOMORE YEAR - Spring Semester Dynamics Circuits & Electronics Electronics Lab Linear Algebra & Differential Equ. G.E. (World History) Units this semester JUNIOR YEAR - Spring Semester Fluid Mechanics Junior Design: interdisciplinary (Service-Learning) G.E. (Common Inquiries #1 & #5)	17 4 4 0 4 16 Units 3	Statics Phy II & Calc I coreq Circuits Calc II NA
SOPHOMORE YEAR - Fall Semester Seneral Chemistry + Lab Multivariable Calculus G.E. (Christian Doctrine) G.E. (Writing for the Liberal Arts) Mechanics of Materials Jinits this semester Individuals Engineering Manufacturing Processes Junits this semester Units Mechanics of Materials Junits this semester Units Materials Engineering Manufacturing Processes Junits this semester Gentrol Systems Gentrol Systems Gentrol Systems Gentrol Systems Gentrol Systems Gentrol Engineering internship Oto 3	Calc II NA NA Statics Schanics of Materials Statics Dynamics Dynamics NA NA	SOPHOMORE YEAR - Spring Semester Dynamics Circuits & Electronics Electronics Lab Linear Algebra & Differential Equ. G.E. (World History) Units this semester JUNIOR YEAR - Spring Semester Fluid Mechanics Junior Design: interdisciplinary (Service-Learning) G.E. (Common Inquiries #1 & #5)	4 4 0 4 16	Phy II & Calc I coreq Circuits Calc II NA
General Chemistry + Lab Multivariable Calculus 3.E. (Christian Doctrine) 4	Calc II NA NA Statics Schanics of Materials Statics Dynamics Dynamics NA NA	Dynamics Circuits & Electronics Electronics Lab Linear Algebra & Differential Equ. G.E. (World History) Units this semester JUNIOR YEAR - Spring Semester Fluid Mechanics Junior Design: interdisciplinary (Service-Learning) G.E. (Common Inquiries #1 & #5)	4 0 4 4 16	Phy II & Calc I coreq Circuits Calc II NA
Multivariable Calculus 3.E. (Christian Doctrine) 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4	Calc II NA NA Statics Schanics of Materials Statics Dynamics Dynamics NA NA	Circuits & Electronics Electronics Lab Linear Algebra & Differential Equ. G.E. (World History) Units this semester JUNIOR YEAR - Spring Semester Fluid Mechanics Junior Design: interdisciplinary (Service-Learning) G.E. (Common Inquiries #1 & #5)	4 0 4 4 16	Phy II & Calc I coreq Circuits Calc II NA
G.E. (Christian Doctrine) G.E. (Writing for the Liberal Arts) Mechanics of Materials Julits this semester ENGINEERING MAYTERM Waterials Engineering Manufacturing Processes Julits this semester Units Units Method Materials Engineering Manufacturing Processes Julits this semester G. Units Control Systems G.E. (Foreign Language) G.E. (Philosophical Reflections) A Optional: Engineering internship O to 3	NA NA Statics schanics of Materials Statics Dynamics Dynamics NA NA	Electronics Lab Linear Algebra & Differential Equ. G.E. (World History) Units this semester JUNIOR YEAR - Spring Semester Fluid Mechanics Junior Design: interdisciplinary (Service-Learning) G.E. (Common Inquiries #1 & #5)	0 4 4 16 Units 3	coreq Circuits Calc II NA Thermo
S.E. (Writing for the Liberal Arts) Mechanics of Materials Julits this semester 19 ENGINEERING MAYTERM Materials Engineering Manufacturing Processes Julits this semester 6 UNIOR YEAR - Fall Semester Units Thermodynamics 3 S.E. (Foreign Language) 4 Optional: Engineering internship 0 to 3	NA Statics schanics of Materials Statics Dynamics Dynamics NA NA	Linear Algebra & Differential Equ. G.E. (World History) Units this semester JUNIOR YEAR - Spring Semester Fluid Mechanics Junior Design: interdisciplinary (Service-Learning) G.E. (Common Inquiries #1 & #5)	4 4 16 Units 3	Calc II NA Thermo
Mechanics of Materials Jinits this semester 19 ENGINEERING MAYTERM Materials Engineering Manufacturing Processes Jinits this semester 6 UNIOR YEAR - Fall Semester Thermodynamics 3 Control Systems 3 S.E. (Foreign Language) 4 Optional: Engineering internship 0 to 3	Statics chanics of Materials Statics Dynamics Dynamics NA NA	G.E. (World History) Units this semester JUNIOR YEAR - Spring Semester Fluid Mechanics Junior Design: interdisciplinary (Service-Learning) G.E. (Common Inquiries #1 & #5)	4 16 Units 3	NA Thermo
Units this semester 19 ENGINEERING MAYTERM Units Materials Engineering 3 Med Manufacturing Processes 3 Units this semester 6 UNIOR YEAR - Fall Semester Units Thermodynamics 4 Control Systems 3 G.E. (Foreign Language) 4 G.E. (Philosophical Reflections) 4 Optional: Engineering internship 0 to 3	Echanics of Materials Statics Dynamics Dynamics NA NA	JUNIOR YEAR - Spring Semester Fluid Mechanics Junior Design: interdisciplinary (Service-Learning) G.E. (Common Inquiries #1 & #5)	Units 3	Thermo
ENGINEERING MAYTERM Materials Engineering Manufacturing Processes Julits this semester 6 JUNIOR YEAR - Fall Semester Thermodynamics 4 Control Systems 3.E. (Foreign Language) 4.E. (Philosophical Reflections) 4 Diptional: Engineering internship 0 to 3	Dynamics Dynamics NA NA	JUNIOR YEAR - Spring Semester Fluid Mechanics Junior Design: interdisciplinary (Service-Learning) G.E. (Common Inquiries #1 & #5)	Units 3	
Materials Engineering 3 Med Manufacturing Processes 3 Units this semester 6 UNIOR YEAR - Fall Semester Units Thermodynamics 4 Control Systems 3 3.E. (Foreign Language) 4 3.E. (Philosophical Reflections) 4 Optional: Engineering internship 0 to 3	Dynamics Dynamics NA NA	Fluid Mechanics Junior Design: interdisciplinary (Service-Learning) G.E. (Common Inquiries #1 & #5)	3	
Manufacturing Processes 3 Units this semester 6 UNIOR YEAR - Fall Semester Units Thermodynamics 4 Control Systems 3 G.E. (Foreign Language) 4 G.E. (Philosophical Reflections) 4 Optional: Engineering internship 0 to 3	Dynamics Dynamics NA NA	Fluid Mechanics Junior Design: interdisciplinary (Service-Learning) G.E. (Common Inquiries #1 & #5)	3	
Units this semester 6 UNIOR YEAR - Fall Semester Units Thermodynamics 4 Control Systems 3 G.E. (Foreign Language) 4 G.E. (Philosophical Reflections) 4 Optional: Engineering internship 0 to 3	Dynamics Dynamics NA NA	Fluid Mechanics Junior Design: interdisciplinary (Service-Learning) G.E. (Common Inquiries #1 & #5)	3	
JUNIOR YEAR - Fall Semester Thermodynamics 4 Control Systems 3.E. (Foreign Language) 4.E. (Philosophical Reflections) 4 Optional: Engineering internship 0 to 3	Dynamics NA NA	Fluid Mechanics Junior Design: interdisciplinary (Service-Learning) G.E. (Common Inquiries #1 & #5)	3	
Thermodynamics 4 Control Systems 3 G.E. (Foreign Language) 4 G.E. (Philosophical Reflections) 4 Optional: Engineering internship 0 to 3	Dynamics NA NA	Fluid Mechanics Junior Design: interdisciplinary (Service-Learning) G.E. (Common Inquiries #1 & #5)	3	
Control Systems 3 S.E. (Foreign Language) 4 S.E. (Philosophical Reflections) 4 Optional: Engineering internship 0 to 3	Dynamics NA NA	Fluid Mechanics Junior Design: interdisciplinary (Service-Learning) G.E. (Common Inquiries #1 & #5)		
G.E. (Foreign Language) G.E. (Philosophical Reflections) 4 Optional: Engineering internship 0 to 3	NA NA	(Service-Learning) G.E. (Common Inquiries #1 & #5)	3	lunior etatua
G.E. (Foreign Language) G.E. (Philosophical Reflections) 4 Optional: Engineering internship 0 to 3	NA	G.E. (Common Inquiries #1 & #5)		Juliioi Status
G.E. (Philosophical Reflections) 4 Optional: Engineering internship 0 to 3		· · · · · · · · · · · · · · · · · · ·	4	NA
Optional: Engineering internship 0 to 3	Junior status	G.E. (Common Inquiries #8)	4	NA
		P.E	1	NA
Jnits this semester 15		Optional: Engineering internship	0 to 3	Junior status
		Units this semester	15	
Summer - internship 1 to 3 units 0 to 3	Junior status			
SENIOR YEAR - Fall Semester Units		SENIOR YEAR - Spring Semester	Units	
nstrumentation & Measurement 3	Thermo	Senior Design Capstone II	3	Sr Design I
	chanics of Materials	Engineering Elective #2	3	Senior status
Engineering Elective #1 3	Senior status	G.E. (Common Inquiries #6 & #7)	4	NA
S.E. (Common Inquiries #3) 4		P.E.	1	Senior status
Senior Design Capstone I 3	Senior status	Engineering Seminar: Faith, Technology, and Christian Responsibility - Writing Intensive	1	Senior status
Samo Design Capatone i		Preperation for FE exam	0	NA
Jnits this semester 16		Units this semester	12	

Curriculum Categories for Engineering

CURRICULUM BY CATEGORY				
Courses	Units			
G.E. & P.E. classes	4			
G.E. (Intro to New Testament)	4			
G.E. (Intro to Old Testament)	4			
G.E. (Christian Doctrine)	4			
G.E. (Writing for the Liberal Arts)	4			
G.E. (World History)	4			
G.E. (Foreign Language)	4			
G.E. (Philosophical Reflections)	4			
G.E. (Common Inquiries #1 & #5)	4			
G.E. (Common Inquiries #8)	4			
G.E. (Common Inquiries #3)	4			
G.E. (Common Inquiries #6 & #7)	4			
4 PE 1-unit classes	4			
Core Science / Math				
General Physics I (Common Inquiries #2)	4			
General Physics I Lab (W.I.)	1			
Calculus I (Common Inquiries # 4; also QAR)	4			
General Physics II	4			
General Physics II Lab	1			
Calculus II	4			
General Chemistry + Lab	4			
Multivariable Calculus	4			
Circuits & Electronics	4			
Electronics Lab	0			
Linear Algebra & Differential Equ.	4			
Engineering Courses				
Engineering & the Liberal Arts	3			
Statics & Engineering Software	3			
Mechanics of Materials	3			
Dynamics	4			
Thermodynamics	4			
Control Systems	3			
Fluid Mechanics	3			
Junior Design: interdisciplinary (Service-Learning)	3			
Instrumentation & Measurement	3			
Mechanical Design	3			
Engineering Elective #1	3			
Senior Design Capstone I	3			
Senior Design Capstone II	3			
Engineering Elective #2	3			
Engineering Seminar: Faith, Technology, and Christian				
Responsibility - Writing Intensive	1			