IRST YEAR							
all (even)	Credits	Interim	Credits	Spring (odd)	Credits		
ES 160 Inquiry Seminar	3	ENR 160 Introduction to Engineering	3	COS 205 Scientific Computing	3		
ES 130 Christianity Western Culture	4			GES 140 Introduction to Wellbeing	3		
MAT 124M Calculus 1	4			MAT 125 Calculus 2	4		
HY 292	4			PHY 296	- "		
PHY 292D				& PHY 297	-		
eneral Physics I and General Physics I Lab				General Physics II and General Physics II Lab	0-3		
	15		3	Artistic Experience (A) course	14-17	32	
ECOND YEAR	10				14-17	32	
all (odd)	Credits	Interim	Credits	Spring (even)	Credits		
IB 101 Introduction to the Bible	3	ENR 265 Computer Aided Design & Engineering		ENR 318 Engineering Thermal Science	3		
HE 208	4	ENR 203 Computer Aided Design & Engineering		ENR 352	4		
CHE 208D				& ENR 353	- '		
ccelerated General Chemistry and Accelerated General				Computer Methods in Physics & Engineering and			
hemistry Lab				Computer Methods in Physics & Engineering and Computer Methods in Physics & Engineering Lab			
HY 302	4			PHY 312	4		
PHY 303				& PHY 313			
lectronics and Electronics Lab				Modern Physics and Modern Physics Lab			
AAT 223 Multivariable Calculus	3			GES 125 Introduction to the Creative Arts	4		
NR 260 Careers in Engineering & Physics Seminar	1			THE 201 Christian Theology	3		
	15		3		18	36	#REF
HIRD YEAR						150	"III.E.
all (even)	Credits	Interim	Credits	Spring (odd)	Credits		
MAT 224 Differential Equations with Linear Algebra	4	World Cultures (U) course	3	ENR 308 Statics and Mechanics of Materials	4		
NR 320 Mathematical Methods in Physics & Engineering	4		_	ENR 348 Heat Transfer	3		
NR 422	1			ENR 446	4		
ENR 423	4			& ENR 447			
luid Mechanics and Fluid Mechanics Lab							
econd Language (S) course *1	4			Control Systems and Control Systems Lab Contemporary Western Life and Thought (L) course	3		
econd Language (3) course 1	4			Leisure and Lifetime Sports (Q) course	1		
				1 1 7	0-3		
	16		3	Cross-cultural Experience (Z) course	15-18		
OURTH YEAR	10		3		15-16	34	#REF
	0 111		0 111		0 111		
all (odd)	Credits			Spring (even)	Credits		
NR 465 Engineering Design Seminar	1	Comparative Systems (G) course	3	ENR 490 Engineering Design Project	3		
NR 304	4			ENR 358	4		
ENR 305				<u>& ENR 359</u>			
ngineering Materials and Engineering Materials Lab				Design of Mechanical Components & Systems and Design of Mechanical Components and Systems Lab			
NR 356 Fundamentals of Design and Manufacturing	3			ENR 402 Mechanical Systems and Measurements Lab	3		
HY 340 Mechanics	4			Science, Technology, and Society (K) course	3		
nterpreting Biblical Themes (J) course	3			Contemporary Christian Issues (P) course	3		
	15		3		16	34	#REF
linimum Total Credits 136						136	#REI
Students must complete through the second seme:	ster of a	first year language course or equivalent. (Che	ck the cat	alog for details of this option.)			

B.S. in Mechani	cal E	Ingineering 2022-2023:	Opti	on 2 - Humanities			
FIRST YEAR							
fall (even)		Interim	Credits	, ,	Credits		
GES 145 Humanities I: Greco-Roman through Middle Ages	4	GES 147 Humanities II: Renaissance and Reformation	4	GES 244 Humanities III: European Enlightenment and American Culture to 1877	4		
BIB 101 Introduction to the Bible	3			COS 205 Scientific Computing	3		
MAT 124M Calculus 1	4			MAT 125 Calculus 2	4		
PHY 292	4			PHY 296	4		
<u>R PHY 292D</u>				<u>& PHY 297</u>			
General Physics I and General Physics I Lab				General Physics II and General Physics II Lab			
BIB 101 Introduction to the Bible				Artistic Experience (A) course	0-3		
	15		4		15-18	34	#REF
SECOND YEAR							
fall (odd)	Credits	Interim	Credits	Spring (even)	Credits		
GES 246 Humanities IV: Modern and Contemporary Western Culture	4	ENR 160 Introduction to Engineering	3	ENR 318 Engineering Thermal Science	3		
CHE 208	4			ENR 352	4		
<u>3 CHE 208D</u>				<u>& ENR 353</u>			
Accelerated General Chemistry and Accelerated General Chemistry Lab				Computer Methods in Physics & Engineering and Computer Methods in Physics & Engineering Lab			
PHY 302	4			PHY 312	4		
<u>R PHY 303</u>				<u>& PHY 313</u>			
lectronics and Electronics Lab				Modern Physics and Modern Physics Lab			
MAT 223 Multivariable Calculus	3			World Cultures (U) course	3		
NR 260 Careers in Engineering & Physics Seminar	1			GES 140 Introduction to Wellbeing	3		
	16		3		17	36	#REF!
HIRD YEAR							
Fall (even)	Credits	Interim	Credits	Spring (odd)	Credits		
MAT 224 Differential Equations with Linear Algebra	4	ENR 265 Computer Aided Design & Engineering	3	ENR 308 Statics and Mechanics of Materials	4		
ENR 320 Mathematical Methods in Physics & Engineering	4			ENR 348 Heat Transfer	3		
ENR 422	4			ENR 446	4		
& ENR 423				& ENR 447			
Fluid Mechanics and Fluid Mechanics Lab				Control Systems and Control Systems Lab			
Second Language (S) course *1	4			Science, Technology, and Society (K) course	3		
				Leisure and Lifetime Sports (Q) course	1		
				Cross-cultural Experience (Z) course	0-3		
	16		3		15-18		
FOURTH YEAR	10		3		13-18	34	#REF!
Fall (odd)	Credits	Interim	Credits	Spring (even)	Credits		
NR 465 Engineering Design Seminar	1	Comparative Systems (G) course		ENR 490 Engineering Design Project	3		
ENR 304	4	comparative systems (a) course	,	ENR 358			
	- 4			& ENR 359	4		
& ENR 305							
Engineering Materials and Engineering Materials Lab				Design of Mechanical Components & Systems and Design of Mechanical Components and Systems Lab			
ENR 356 Fundamentals of Design and Manufacturing	3			ENR 402 Mechanical Systems & Measurements Lab	3		
PHY 340 Mechanics	4			Contemporary Christian Issues (P) course	3		
nterpreting Biblical Themes (J) course	3			contemporary constitutions are try course	3	-	
interpreting distilled Thernes (1) course	15		3		12	31	"DE="
Minimum Total Credits 135	1 13			I .	13	135	#REF!
						135	#REF!
1. Students must complete through the second seme	ster of a	first year language course or equivalent. (Chec	ck the cat	alog for details of this option.)			
Most financial aid packages stipulate 12 credits/semester; N pring for state grant purposes only.)	Minnesota	state grants are reduced when credit load falls below	ow 15 cred	lits/semester. (Interim credits may be split between fall a	and		