

College of Engineering

MDS 040 BSCHE Chemical Engineering **4 Year, 1 Co-op**

Yr 1 FL	C MTH U241 Calculus 1 for Sci/Engr	4.0 SH
Yr 1 FL	C CHM U151 General Chem for Engineers Coreq(s): C CHM U152 C CHM U153	4.0 SH
Yr 1 FL	A GE U110 Engineering Design	4.0 SH
Yr 1 FL	A GE U100 Intro to the Study of Engr	1.0 SH
Yr 1 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 SP	C MTH U242 Calculus 2 for Sci/Engr	4.0 SH
Yr 1 SP	C PHY U151 Physics for Engineering 1 Coreq(s): C PHY U152 C PHY U153	4.0 SH
Yr 1 SP	C PHY U152 Lab for PHY U151 Coreq(s): C PHY U151 C PHY U153	1.0 SH
Yr 1 SP	A GE U111 Engr Prob Solv and Comp	4.0 SH
Yr 1 SP	C ENG U111 College Writing	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 S1	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 1 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 2 FL	C MTH U341 Calculus 3 for Sci/Engr Coreq(s): C MTH U342	4.0 SH
Yr 2 FL	C CHM U311 Organic Chemistry1 Coreq(s): C CHM U312	4.0 SH
Yr 2 FL	C CHM U312 Lab for CHM U311 Coreq(s): C CHM U311	1.0 SH
Yr 2 FL	A CHE U308 Chemical Engr Calculations Coreq(s): A CHE U309	4.0 SH
Yr 2 FL	A CHE U309 Lab for CHE U308 Coreq(s): A CHE U308	1.0 SH
Yr 2 FL	A CHE U300 Intro to Engr Coop Education	1.0 SH
Yr 2 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	19.0 SH
Yr 2 SP	C MTH U343 Diff Eq and Lin Alg for Engr Coreq(s): C MTH U344	4.0 SH
Yr 2 SP	C CHM U313 Organic Chemistry 2 Coreq(s): C CHM U314	4.0 SH
Yr 2 SP	C CHM U314 Lab CHM U313 Coreq(s): C CHM U313	1.0 SH
Yr 2 SP	A CHE U320 Chemical Engr Thermodynamics 1	4.0 SH
Yr 2 SP	A CHE U310 Transport Processes and Ops 1	4.0 SH
	Semester Subtotal	17.0 SH
Yr 2 S1	C ENG U302 Advanced Writing in Tech Prof	4.0 SH
Yr 2 S1	NU Core Course or Elective	4.0 SH
	Semester Subtotal	8.0 SH
Yr 2 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH

Yr 3 FL	A CHE U322 Chemical Engr Thermodynamics 2	4.0 SH
Yr 3 FL	A CHE U312 Transport Processes and Ops 2	4.0 SH
Yr 3 FL	C PHY U155 Physics for Engineering 2 Coreq(s): C PHY U156 C PHY U157	4.0 SH
Yr 3 FL	C PHY U156 Lab for PHY U155 Coreq(s): C PHY U155 C PHY U157	1.0 SH
Yr 3 FL	A CHE U500 Professional Issues in Engr	1.0 SH
Yr 3 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	18.0 SH
Yr 3 SP	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 S1	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 S2	A CHE U520 Unit Ops & Separation Processes Coreq(s): A CHE U521	3.0 SH
Yr 3 S2	A CHE U521 Lab for CHE U520 Coreq(s): A CHE U520	2.0 SH
Yr 3 S2	NU Core Course or Elective	4.0 SH
	Semester Subtotal	9.0 SH
Yr 4 FL	C CHM U403 Physical Chemistry 2 Coreq(s): C CHM U404	4.0 SH
Yr 4 FL	C CHM U404 Lab for CHM U403 Coreq(s): C CHM U403	1.0 SH
Yr 4 FL	A CHE U510 Chemical Engineering Kinetics	4.0 SH
Yr 4 FL	A CHE U701 Chemical Process Design 1 Coreq(s): A CHE U702	4.0 SH
Yr 4 FL	A CHE U702 Lab for CHE U701 Coreq(s): A CHE U701	1.0 SH
Yr 4 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	18.0 SH
Yr 4 SP	A CHE U703 Chemical Process Design 2 Coreq(s): A CHE U704	3.0 SH
Yr 4 SP	A CHE U704 Lab for CHE U703 Coreq(s): A CHE U703	2.0 SH
Yr 4 SP	A CHE U512 Chemical Engr Process Control	4.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	13.0 SH

MDS 040 BSCHE Chemical Engineering Div A

Yr 1 FL	C MTH U241 Calculus 1 for Sci/Engr	4.0 SH
Yr 1 FL	C CHM U151 General Chem for Engineers Coreq(s): C CHM U152 C CHM U153	4.0 SH
Yr 1 FL	C CHM U153 Recitation for CHM U151 Coreq(s): C CHM U151 C CHM U152	0.0 SH
Yr 1 FL	A GE U110 Engineering Design	4.0 SH
Yr 1 FL	A GE U100 Intro to the Study of Engr	1.0 SH
Yr 1 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	17.0 SH

Yr 1 SP	C MTH U242 Calculus 2 for Sci/Engr	4.0 SH	Yr 3 S2	CO-OP	0.0 SH
Yr 1 SP	C PHY U151 Physics for Engineering 1 Coreq(s): C PHY U152 C PHY U153	4.0 SH		Semester Subtotal	0.0 SH
Yr 1 SP	C PHY U152 Lab for PHY U151 Coreq(s): C PHY U151 C PHY U153	1.0 SH	Yr 4 FL	CO-OP	0.0 SH
Yr 1 SP	C PHY U153 Interact Learn for PHY U151 Coreq(s): C PHY U151 C PHY U152	0.0 SH		Semester Subtotal	0.0 SH
Yr 1 SP	C ENG U111 College Writing	4.0 SH	Yr 4 SP	A CHE U701 Chemical Process Design 1 Coreq(s): A CHE U702	4.0 SH
Yr 1 SP	A GE U111 Engr Prob Solv and Comp	4.0 SH	Yr 4 SP	A CHE U702 Lab for CHE U701 Coreq(s): A CHE U701	1.0 SH
	Semester Subtotal	17.0 SH	Yr 4 SP	A CHE U510 Chemical Engineering Kinetics	4.0 SH
Yr 1 S1	VACATION	0.0 SH	Yr 4 SP	A CHE U500 Professional Issues in Engr	1.0 SH
	Semester Subtotal	0.0 SH	Yr 4 SP	NU Core course or Elective	4.0 SH
Yr 1 S2	VACATION	0.0 SH	Yr 4 SP	Engrg General Elective	4.0 SH
	Semester Subtotal	0.0 SH		Semester Subtotal	18.0 SH
Yr 2 FL	C MTH U341 Calculus 3 for Sci/Engr Coreq(s): C MTH U342	4.0 SH	Yr 4 S1	C PHY U155 Physics for Engineering 2 Coreq(s): C PHY U156 C PHY U157	4.0 SH
Yr 2 FL	C CHM U311 Organic Chemistry1 Coreq(s): C CHM U312	4.0 SH	Yr 4 S1	C PHY U156 Lab for PHY U155 Coreq(s): C PHY U155 C PHY U157	1.0 SH
Yr 2 FL	C CHM U312 Lab for CHM U311 Coreq(s): C CHM U311	1.0 SH	Yr 4 S1	C PHY U157 Interact Learn for PHY U155 Coreq(s): C PHY U155 C PHY U156	0.0 SH
Yr 2 FL	A CHE U308 Chemical Engr Calculations Coreq(s): A CHE U309	4.0 SH	Yr 4 S1	Engrg General Elective	4.0 SH
Yr 2 FL	A CHE U309 Lab for CHE U308 Coreq(s): A CHE U308	1.0 SH		Semester Subtotal	9.0 SH
Yr 2 FL	A CHE U300 Intro to Engr Coop Education	1.0 SH	Yr 4 S2	CO-OP	0.0 SH
Yr 2 FL	Engrg General Elective	4.0 SH		Semester Subtotal	0.0 SH
	Semester Subtotal	19.0 SH	Yr 5 FL	CO-OP	0.0 SH
Yr 2 SP	C CHM U313 Organic Chemistry 2 Coreq(s): C CHM U314	4.0 SH		Semester Subtotal	0.0 SH
Yr 2 SP	C CHM U314 Lab CHM U313 Coreq(s): C CHM U313	1.0 SH	Yr 5 SP	A CHE U703 Chemical Process Design 2 Coreq(s): A CHE U704	3.0 SH
Yr 2 SP	A CHE U310 Transport Processes and Ops 1	4.0 SH	Yr 5 SP	A CHE U704 Lab for CHE U703 Coreq(s): A CHE U703	2.0 SH
Yr 2 SP	C MTH U343 Diff Eq and Lin Alg for Engr Coreq(s): C MTH U344	4.0 SH	Yr 5 SP	A CHE U512 Chemical Engr Process Control	4.0 SH
Yr 2 SP	A CHE U320 Chemical Engr Thermodynamics 1	4.0 SH	Yr 5 SP	CHE Technical Elective	4.0 SH
	Semester Subtotal	17.0 SH	Yr 5 SP	CHM Intermed/Adv UG Elective	5.0 SH
Yr 2 S1	VACATION	0.0 SH		Semester Subtotal	18.0 SH
	Semester Subtotal	0.0 SH	MDS 040 BSCHE Chemical Engineering Div B		
Yr 2 S2	CO-OP	0.0 SH	Yr 1 FL	C MTH U241 Calculus 1 for Sci/Engr	4.0 SH
	Semester Subtotal	0.0 SH	Yr 1 FL	C CHM U151 General Chem for Engineers Coreq(s): C CHM U152 C CHM U153	4.0 SH
Yr 3 FL	CO-OP	0.0 SH	Yr 1 FL	C CHM U153 Recitation for CHM U151 Coreq(s): C CHM U151 C CHM U152	0.0 SH
	Semester Subtotal	0.0 SH	Yr 1 FL	A GE U110 Engineering Design	4.0 SH
Yr 3 SP	A CHE U322 Chemical Engr Thermodynamics 2	4.0 SH	Yr 1 FL	A GE U100 Intro to the Study of Engr	1.0 SH
Yr 3 SP	A CHE U312 Transport Processes and Ops 2	4.0 SH	Yr 1 FL	NU Core course or Elective	4.0 SH
Yr 3 SP	C ENG U302 Advanced Writing in Tech Prof	4.0 SH		Semester Subtotal	17.0 SH
Yr 3 SP	C CHM U403 Physical Chemistry 2 Coreq(s): C CHM U404	4.0 SH	Yr 1 SP	C MTH U242 Calculus 2 for Sci/Engr	4.0 SH
Yr 3 SP	C CHM U404 Lab for CHM U403 Coreq(s): C CHM U403	1.0 SH	Yr 1 SP	C PHY U151 Physics for Engineering 1 Coreq(s): C PHY U152 C PHY U153	4.0 SH
Yr 3 SP	CHM Advanced UG Elective	4.0 SH	Yr 1 SP	C PHY U152 Lab for PHY U151 Coreq(s): C PHY U151 C PHY U153	1.0 SH
	Semester Subtotal	21.0 SH	Yr 1 SP	C PHY U153 Interact Learn for PHY U151 Coreq(s): C PHY U151 C PHY U152	0.0 SH
Yr 3 S1	A CHE U520 Unit Ops & Separation Processes Coreq(s): A CHE U521	3.0 SH	Yr 1 SP	C ENG U111 College Writing	4.0 SH
Yr 3 S1	A CHE U521 Lab for CHE U520 Coreq(s): A CHE U520	2.0 SH	Yr 1 SP	A GE U111 Engr Prob Solv and Comp	4.0 SH
Yr 3 S1	Engrg General Elective	4.0 SH		Semester Subtotal	17.0 SH
	Semester Subtotal	9.0 SH	Yr 1 S1	VACATION	0.0 SH
				Semester Subtotal	0.0 SH

Yr 1 S2	VACATION	0.0 SH	Yr 4 S1	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH		Semester Subtotal	0.0 SH
Yr 2 FL	C MTH U341 Calculus 3 for Sci/Engr Coreq(s): C MTH U342	4.0 SH	Yr 4 S2	VACATION	0.0 SH
Yr 2 FL	C CHM U311 Organic Chemistry1 Coreq(s): C CHM U312	4.0 SH		Semester Subtotal	0.0 SH
Yr 2 FL	C CHM U312 Lab for CHM U311 Coreq(s): C CHM U311	1.0 SH	Yr 5 FL	A CHE U510 Chemical Engineering Kinetics	4.0 SH
Yr 2 FL	A CHE U308 Chemical Engr Calculations Coreq(s): A CHE U309	4.0 SH	Yr 5 FL	A CHE U701 Chemical Process Design 1 Coreq(s): A CHE U702	4.0 SH
Yr 2 FL	A CHE U309 Lab for CHE U308 Coreq(s): A CHE U308	1.0 SH	Yr 5 FL	A CHE U702 Lab for CHE U701 Coreq(s): A CHE U701	1.0 SH
Yr 2 FL	A CHE U300 Intro to Engr Coop Education	1.0 SH	Yr 5 FL	Engrg General Elective	4.0 SH
Yr 2 FL	Engrg General Elective	4.0 SH	Yr 5 FL	Engrg General Elective	4.0 SH
	Semester Subtotal	19.0 SH		Semester Subtotal	17.0 SH
Yr 2 SP	CO-OP	0.0 SH	Yr 5 SP	A CHE U703 Chemical Process Design 2 Coreq(s): A CHE U704	3.0 SH
	Semester Subtotal	0.0 SH	Yr 5 SP	A CHE U704 Lab for CHE U703 Coreq(s): A CHE U703	2.0 SH
Yr 2 S1	CO-OP	0.0 SH	Yr 5 SP	A CHE U512 Chemical Engr Process Control	4.0 SH
	Semester Subtotal	0.0 SH	Yr 5 SP	CHM Intermed/Adv UG Elective	5.0 SH
Yr 2 S2	A CHE U320 Chemical Engr Thermodynamics 1	4.0 SH	Yr 5 SP	CHE Technical Elective	4.0 SH
Yr 2 S2	C MTH U343 Diff Eq and Lin Alg for Engr Coreq(s): C MTH U344	4.0 SH		Semester Subtotal	18.0 SH
	Semester Subtotal	8.0 SH	<hr/> MDS 040 BSCE Chemical Engineering Div N		
Yr 3 FL	C CHM U313 Organic Chemistry 2 Coreq(s): C CHM U314	4.0 SH	Yr 1 FL	C MTH U241 Calculus 1 for Sci/Engr	4.0 SH
Yr 3 FL	C CHM U314 Lab CHM U313 Coreq(s): C CHM U313	1.0 SH	Yr 1 FL	C CHM U151 General Chem for Engineers Coreq(s): C CHM U152 C CHM U153	4.0 SH
Yr 3 FL	A CHE U322 Chemical Engr Thermodynamics 2	4.0 SH	Yr 1 FL	C CHM U153 Recitation for CHM U151 Coreq(s): C CHM U151 C CHM U152	0.0 SH
Yr 3 FL	C ENG U302 Advanced Writing in Tech Prof	4.0 SH	Yr 1 FL	A GE U110 Engineering Design	4.0 SH
Yr 3 FL	A CHE U310 Transport Processes and Ops 1	4.0 SH	Yr 1 FL	A GE U100 Intro to the Study of Engr	1.0 SH
	Semester Subtotal	17.0 SH	Yr 1 FL	NU Core course or Elective	4.0 SH
Yr 3 SP	CO-OP	0.0 SH		Semester Subtotal	17.0 SH
	Semester Subtotal	0.0 SH	Yr 1 SP	C MTH U242 Calculus 2 for Sci/Engr	4.0 SH
Yr 3 S1	CO-OP	0.0 SH	Yr 1 SP	C PHY U151 Physics for Engineering 1 Coreq(s): C PHY U152 C PHY U153	4.0 SH
	Semester Subtotal	0.0 SH	Yr 1 SP	C PHY U152 Lab for PHY U151 Coreq(s): C PHY U151 C PHY U153	1.0 SH
Yr 3 S2	A CHE U520 Unit Ops & Separation Processes Coreq(s): A CHE U521	3.0 SH	Yr 1 SP	C PHY U153 Interact Learn for PHY U151 Coreq(s): C PHY U151 C PHY U152	0.0 SH
Yr 3 S2	A CHE U521 Lab for CHE U520 Coreq(s): A CHE U520	2.0 SH	Yr 1 SP	C ENG U111 College Writing	4.0 SH
Yr 3 S2	NU Core course or Elective	4.0 SH	Yr 1 SP	A GE U111 Engr Prob Solv and Comp	4.0 SH
	Semester Subtotal	9.0 SH		Semester Subtotal	17.0 SH
Yr 4 FL	A CHE U312 Transport Processes and Ops 2	4.0 SH	Yr 1 S1	VACATION	0.0 SH
Yr 4 FL	C CHM U403 Physical Chemistry 2 Coreq(s): C CHM U404	4.0 SH		Semester Subtotal	0.0 SH
Yr 4 FL	C CHM U404 Lab for CHM U403 Coreq(s): C CHM U403	1.0 SH	Yr 1 S2	VACATION	0.0 SH
Yr 4 FL	A CHE U500 Professional Issues in Engr	1.0 SH		Semester Subtotal	0.0 SH
Yr 4 FL	C PHY U155 Physics for Engineering 2 Coreq(s): C PHY U156 C PHY U157	4.0 SH			
Yr 4 FL	C PHY U156 Lab for PHY U155 Coreq(s): C PHY U155 C PHY U157	1.0 SH			
Yr 4 FL	C PHY U157 Interact Learn for PHY U155 Coreq(s): C PHY U155 C PHY U156	0.0 SH			
Yr 4 FL	Engrg General Elective	4.0 SH			
	Semester Subtotal	19.0 SH			
Yr 4 SP	CO-OP	0.0 SH			
	Semester Subtotal	0.0 SH			

Yr 2 FL	C MTH U341 Calculus 3 for Sci/Engr Coreq(s): C MTH U342	4.0 SH	Yr 4 S2	A CHE U520 Unit Ops & Separation Processes Coreq(s): A CHE U521	3.0 SH
Yr 2 FL	C CHM U311 Organic Chemistry1 Coreq(s): C CHM U312	4.0 SH	Yr 4 S2	A CHE U521 Lab for CHE U520 Coreq(s): A CHE U520	2.0 SH
Yr 2 FL	C CHM U312 Lab for CHM U311 Coreq(s): C CHM U311	1.0 SH	Yr 4 S2	C ENG U302 Advanced Writing in Tech Prof	4.0 SH
Yr 2 FL	A CHE U308 Chemical Engr Calculations Coreq(s): A CHE U309	4.0 SH		Semester Subtotal	9.0 SH
Yr 2 FL	A CHE U309 Lab for CHE U308 Coreq(s): A CHE U308	1.0 SH	Yr 5 FL	A CHE U510 Chemical Engineering Kinetics	4.0 SH
Yr 2 FL	A CHE U300 Intro to Engr Coop Education	1.0 SH	Yr 5 FL	A CHE U701 Chemical Process Design 1 Coreq(s): A CHE U702	4.0 SH
Yr 2 FL	Engr General Elective	4.0 SH	Yr 5 FL	A CHE U702 Lab for CHE U701 Coreq(s): A CHE U701	1.0 SH
	Semester Subtotal	19.0 SH	Yr 5 FL	A CHE U512 Chemical Engr Process Control	4.0 SH
Yr 2 SP	CO-OP	0.0 SH	Yr 5 FL	Engr General Elective	4.0 SH
	Semester Subtotal	0.0 SH		Semester Subtotal	17.0 SH
Yr 2 S1	CO-OP	0.0 SH	Yr 5 SP	A CHE U703 Chemical Process Design 2 Coreq(s): A CHE U704	3.0 SH
	Semester Subtotal	0.0 SH	Yr 5 SP	A CHE U704 Lab for CHE U703 Coreq(s): A CHE U703	2.0 SH
Yr 2 S2	VACATION	0.0 SH	Yr 5 SP	CHM Intermed/Adv UG Elective	5.0 SH
	Semester Subtotal	0.0 SH	Yr 5 SP	Engr General Elective	4.0 SH
Yr 3 FL	C CHM U313 Organic Chemistry 2 Coreq(s): C CHM U314	4.0 SH	Yr 5 SP	CHE Technical Elective	4.0 SH
Yr 3 FL	C CHM U314 Lab CHM U313 Coreq(s): C CHM U313	1.0 SH		Semester Subtotal	18.0 SH
Yr 3 FL	C CHM U403 Physical Chemistry 2 Coreq(s): C CHM U404	4.0 SH			
Yr 3 FL	C CHM U404 Lab for CHM U403 Coreq(s): C CHM U403	1.0 SH			
Yr 3 FL	A CHE U320 Chemical Engr Thermodynamics 1	4.0 SH			
Yr 3 FL	A CHE U310 Transport Processes and Ops 1	4.0 SH			
	Semester Subtotal	18.0 SH			
Yr 3 SP	CO-OP	0.0 SH			
	Semester Subtotal	0.0 SH			
Yr 3 S1	CO-OP	0.0 SH			
	Semester Subtotal	0.0 SH			
Yr 3 S2	Engr General Elective	4.0 SH			
Yr 3 S2	NU Core course or Elective	4.0 SH			
	Semester Subtotal	8.0 SH			
Yr 4 FL	C MTH U343 Diff Eq and Lin Alg for Engr Coreq(s): C MTH U344	4.0 SH			
Yr 4 FL	A CHE U312 Transport Processes and Ops 2	4.0 SH			
Yr 4 FL	A CHE U322 Chemical Engr Thermodynamics 2	4.0 SH			
Yr 4 FL	C PHY U155 Physics for Engineering 2 Coreq(s): C PHY U156 C PHY U157	4.0 SH			
Yr 4 FL	C PHY U156 Lab for PHY U155 Coreq(s): C PHY U155 C PHY U157	1.0 SH			
Yr 4 FL	C PHY U157 Interact Learn for PHY U155 Coreq(s): C PHY U155 C PHY U156	0.0 SH			
Yr 4 FL	A CHE U500 Professional Issues in Engr	1.0 SH			
	Semester Subtotal	18.0 SH			
Yr 4 SP	CO-OP	0.0 SH			
	Semester Subtotal	0.0 SH			
Yr 4 S1	CO-OP	0.0 SH			
	Semester Subtotal	0.0 SH			

MDS 010 BSCE Civil Engineering

Yr 1 FL	C MTH U241 Calculus 1 for Sci/Engr	4.0 SH
Yr 1 FL	C CHM U151 General Chem for Engineers Coreq(s): C CHM U152 C CHM U153	4.0 SH
Yr 1 FL	C CHM U153 Recitation for CHM U151 Coreq(s): C CHM U151 C CHM U152	0.0 SH
Yr 1 FL	A GE U110 Engineering Design	4.0 SH
Yr 1 FL	A GE U100 Intro to the Study of Engr	1.0 SH
Yr 1 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 SP	C MTH U242 Calculus 2 for Sci/Engr	4.0 SH
Yr 1 SP	C PHY U151 Physics for Engineering 1 Coreq(s): C PHY U152 C PHY U153	4.0 SH
Yr 1 SP	C PHY U152 Lab for PHY U151 Coreq(s): C PHY U151 C PHY U153	1.0 SH
Yr 1 SP	C PHY U153 Interact Learn for PHY U151 Coreq(s): C PHY U151 C PHY U152	0.0 SH
Yr 1 SP	C ENG U111 College Writing	4.0 SH
Yr 1 SP	A GE U111 Engr Prob Solv and Comp	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 S1	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 1 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 2 FL	C MTH U341 Calculus 3 for Sci/Engr Coreq(s): C MTH U342	4.0 SH
Yr 2 FL	A CIV U221 Statics & Strength of Material Coreq(s): A CIV U222	4.0 SH
Yr 2 FL	A CIV U222 Recitation for CIV U221 Coreq(s): A CIV U221	0.0 SH
Yr 2 FL	A CIV U260 Civil Engineering Materials Coreq(s): A CIV U261 A CIV U262	3.0 SH
Yr 2 FL	A CIV U261 Materials & Measurements Lab Coreq(s): A CIV U260 A CIV U264	2.0 SH
Yr 2 FL	A CIV U334 Environmental Engr 1	4.0 SH
	Semester Subtotal	17.0 SH
Yr 2 SP	A CIV U320 Structural Analysis 1 Coreq(s): A CIV U321	4.0 SH
Yr 2 SP	A CIV U321 Recitation for CIV U320 Coreq(s): A CIV U320	0.0 SH
Yr 2 SP	A CIV U300 Intro to Engr Coop Education	1.0 SH
Yr 2 SP	C MTH U343 Diff Eq and Lin Alg for Engr Coreq(s): C MTH U344	4.0 SH
Yr 2 SP	C PHY U155 Physics for Engineering 2 Coreq(s): C PHY U156 C PHY U157	4.0 SH
Yr 2 SP	C PHY U156 Lab for PHY U155 Coreq(s): C PHY U155 C PHY U157	1.0 SH
Yr 2 SP	C PHY U157 Interact Learn for PHY U155 Coreq(s): C PHY U155 C PHY U156	0.0 SH
Yr 2 SP	C ECN U115 Principles of Macroeconomics	4.0 SH
	Semester Subtotal	18.0 SH
Yr 2 S1	A CIV U324 Reinforced Concrete Design 1	4.0 SH
Yr 2 S1	NU Core Course or Elective	4.0 SH
	Semester Subtotal	8.0 SH
Yr 2 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH

Yr 3 FL	A CIV U464 Prob & Engr Economy for CE	4.0 SH
Yr 3 FL	C ENG U302 Advanced Writing in Tech Prof	4.0 SH
Yr 3 FL	NU Core Course or Elective	4.0 SH
Yr 3 FL	Engrg Math/Science Elective	4.0 SH
	Semester Subtotal	16.0 SH
Yr 3 SP	A CIV U340 Soil Mechanics Coreq(s): A CIV U341	4.0 SH
Yr 3 SP	A CIV U341 Lab for CIV U340 Coreq(s): A CIV U340	1.0 SH
Yr 3 SP	A CIV U331 Fluid Mechanics	4.0 SH
Yr 3 SP	CIV Technical Elective	4.0 SH
Yr 3 SP	CIV Technical Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 3 S1	NU Core Course or Elective	4.0 SH
Yr 3 S1	NU Core Course or Elective	4.0 SH
	Semester Subtotal	8.0 SH
Yr 3 S2	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 FL	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 SP	A CIV U500 Professional Issues in Engr	1.0 SH
Yr 4 SP	A CIV U769 Senior Design Project	5.0 SH
Yr 4 SP	CIV Technical Elective	4.0 SH
Yr 4 SP	CIV Technical Elective	4.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	18.0 SH

MDS 010 BSCE Civil Engineering Div A

Yr 1 FL	C CHM U151 General Chem for Engineers Coreq(s): C CHM U152 C CHM U153	4.0 SH
Yr 1 FL	C CHM U153 Recitation for CHM U151 Coreq(s): C CHM U151 C CHM U152	0.0 SH
Yr 1 FL	A GE U110 Engineering Design	4.0 SH
Yr 1 FL	A GE U100 Intro to the Study of Engr	1.0 SH
Yr 1 FL	C MTH U241 Calculus 1 for Sci/Engr	4.0 SH
Yr 1 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 SP	C MTH U242 Calculus 2 for Sci/Engr	4.0 SH
Yr 1 SP	C PHY U151 Physics for Engineering 1 Coreq(s): C PHY U152 C PHY U153	4.0 SH
Yr 1 SP	C PHY U152 Lab for PHY U151 Coreq(s): C PHY U151 C PHY U153	1.0 SH
Yr 1 SP	C PHY U153 Interact Learn for PHY U151 Coreq(s): C PHY U151 C PHY U152	0.0 SH
Yr 1 SP	A GE U111 Engr Prob Solv and Comp	4.0 SH
Yr 1 SP	C ENG U111 College Writing	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 S1	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 1 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH

Yr 2 FL	A CIV U334 Environmental Engr 1	4.0 SH	Yr 4 S2	CO-OP	0.0 SH
Yr 2 FL	A CIV U260 Civil Engineering Materials Coreq(s): A CIV U261 A CIV U262	3.0 SH		Semester Subtotal	0.0 SH
Yr 2 FL	A CIV U261 Materials & Measurements Lab Coreq(s): A CIV U260 A CIV U264	2.0 SH	Yr 5 FL	CO-OP	0.0 SH
Yr 2 FL	A CIV U221 Statics & Strength of Material Coreq(s): A CIV U222	4.0 SH		Semester Subtotal	0.0 SH
Yr 2 FL	A CIV U300 Intro to Engr Coop Education	1.0 SH	Yr 5 SP	Engrg General Elective	4.0 SH
Yr 2 FL	C MTH U341 Calculus 3 for Sci/Engr Coreq(s): C MTH U342	4.0 SH	Yr 5 SP	Engrg General Elective	4.0 SH
Yr 2 FL	A CIV U222 Recitation for CIV U221 Coreq(s): A CIV U221	0.0 SH	Yr 5 SP	CIV Technical Elective	4.0 SH
	Semester Subtotal	18.0 SH	Yr 5 SP	ACIVU76X	4.0 SH
				Semester Subtotal	16.0 SH
Yr 2 SP	A CIV U320 Structural Analysis 1 Coreq(s): A CIV U321	4.0 SH	<hr/> MDS 010 BSCE Civil Engineering Div B <hr/>		
Yr 2 SP	C MTH U343 Diff Eq and Lin Alg for Engr Coreq(s): C MTH U344	4.0 SH	Yr 1 FL	C CHM U151 General Chem for Engineers Coreq(s): C CHM U152 C CHM U153	4.0 SH
Yr 2 SP	C PHY U155 Physics for Engineering 2 Coreq(s): C PHY U156 C PHY U157	4.0 SH	Yr 1 FL	C CHM U153 Recitation for CHM U151 Coreq(s): C CHM U151 C CHM U152	0.0 SH
Yr 2 SP	C PHY U156 Lab for PHY U155 Coreq(s): C PHY U155 C PHY U157	1.0 SH	Yr 1 FL	A GE U110 Engineering Design	4.0 SH
Yr 2 SP	C PHY U157 Interact Learn for PHY U155 Coreq(s): C PHY U155 C PHY U156	0.0 SH	Yr 1 FL	A GE U100 Intro to the Study of Engr	1.0 SH
Yr 2 SP	A CIV U321 Recitation for CIV U320 Coreq(s): A CIV U320	0.0 SH	Yr 1 FL	C MTH U241 Calculus 1 for Sci/Engr	4.0 SH
Yr 2 SP	ECN U115 or ECN U116	4.0 SH	Yr 1 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	17.0 SH		Semester Subtotal	17.0 SH
Yr 2 S1	VACATION	0.0 SH	Yr 1 SP	C MTH U242 Calculus 2 for Sci/Engr	4.0 SH
	Semester Subtotal	0.0 SH	Yr 1 SP	C PHY U151 Physics for Engineering 1 Coreq(s): C PHY U152 C PHY U153	4.0 SH
Yr 2 S2	CO-OP	0.0 SH	Yr 1 SP	C PHY U152 Lab for PHY U151 Coreq(s): C PHY U151 C PHY U153	1.0 SH
	Semester Subtotal	0.0 SH	Yr 1 SP	C PHY U153 Interact Learn for PHY U151 Coreq(s): C PHY U151 C PHY U152	0.0 SH
Yr 3 FL	CO-OP	0.0 SH	Yr 1 SP	A GE U111 Engr Prob Solv and Comp	4.0 SH
	Semester Subtotal	0.0 SH	Yr 1 SP	C ENG U111 College Writing	4.0 SH
Yr 3 SP	A CIV U340 Soil Mechanics Coreq(s): A CIV U341	4.0 SH		Semester Subtotal	17.0 SH
Yr 3 SP	A CIV U341 Lab for CIV U340 Coreq(s): A CIV U340	1.0 SH	Yr 1 S1	VACATION	0.0 SH
Yr 3 SP	A CIV U331 Fluid Mechanics	4.0 SH		Semester Subtotal	0.0 SH
Yr 3 SP	CIV Technical Elective	4.0 SH	Yr 1 S2	VACATION	0.0 SH
Yr 3 SP	Engrg Math/Science Elective	4.0 SH		Semester Subtotal	0.0 SH
	Semester Subtotal	17.0 SH	Yr 2 FL	A CIV U334 Environmental Engr 1	4.0 SH
Yr 3 S1	A CIV U324 Reinforced Concrete Design 1	4.0 SH	Yr 2 FL	A CIV U222 Recitation for CIV U221 Coreq(s): A CIV U221	0.0 SH
Yr 3 S1	Engrg General Elective	4.0 SH	Yr 2 FL	C MTH U341 Calculus 3 for Sci/Engr Coreq(s): C MTH U342	4.0 SH
	Semester Subtotal	8.0 SH	Yr 2 FL	A CIV U221 Statics & Strength of Material Coreq(s): A CIV U222	4.0 SH
Yr 3 S2	CO-OP	0.0 SH	Yr 2 FL	A CIV U300 Intro to Engr Coop Education	1.0 SH
	Semester Subtotal	0.0 SH	Yr 2 FL	A CIV U260 Civil Engineering Materials Coreq(s): A CIV U261 A CIV U262	3.0 SH
Yr 4 FL	CO-OP	0.0 SH	Yr 2 FL	A CIV U261 Materials & Measurements Lab Coreq(s): A CIV U260 A CIV U264	2.0 SH
	Semester Subtotal	0.0 SH		Semester Subtotal	18.0 SH
Yr 4 SP	C ENG U302 Advanced Writing in Tech Prof	4.0 SH	Yr 2 SP	CO-OP	0.0 SH
Yr 4 SP	A CIV U500 Professional Issues in Engr	1.0 SH		Semester Subtotal	0.0 SH
Yr 4 SP	CIV Technical Elective	4.0 SH	Yr 2 S1	CO-OP	0.0 SH
Yr 4 SP	CIV Technical Elective	4.0 SH		Semester Subtotal	0.0 SH
Yr 4 SP	Engrg General Elective	4.0 SH	Yr 2 S2	CIV Technical Elective	4.0 SH
	Semester Subtotal	17.0 SH	Yr 2 S2	Engrg General Elective	4.0 SH
Yr 4 S1	A CIV U464 Prob & Engr Economy for CE	4.0 SH		Semester Subtotal	8.0 SH
Yr 4 S1	Engrg General Elective	4.0 SH			
	Semester Subtotal	8.0 SH			

Yr 3 FL	A CIV U320 Structural Analysis 1 Coreq(s): A CIV U321	4.0 SH
Yr 3 FL	A CIV U321 Recitation for CIV U320 Coreq(s): A CIV U320	0.0 SH
Yr 3 FL	C MTH U343 Diff Eq and Lin Alg for Engr Coreq(s): C MTH U344	4.0 SH
Yr 3 FL	C PHY U155 Physics for Engineering 2 Coreq(s): C PHY U156 C PHY U157	4.0 SH
Yr 3 FL	C PHY U156 Lab for PHY U155 Coreq(s): C PHY U155 C PHY U157	1.0 SH
Yr 3 FL	C PHY U157 Interact Learn for PHY U155 Coreq(s): C PHY U155 C PHY U156	0.0 SH
Yr 3 FL	ECN U115 or ECN U116	4.0 SH
	Semester Subtotal	17.0 SH
Yr 3 SP	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 S1	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 S2	A CIV U340 Soil Mechanics Coreq(s): A CIV U341	4.0 SH
Yr 3 S2	A CIV U341 Lab for CIV U340 Coreq(s): A CIV U340	1.0 SH
Yr 3 S2	A CIV U331 Fluid Mechanics	4.0 SH
	Semester Subtotal	9.0 SH
Yr 4 FL	A CIV U324 Reinforced Concrete Design 1	4.0 SH
Yr 4 FL	C ENG U302 Advanced Writing in Tech Prof	4.0 SH
Yr 4 FL	A CIV U500 Professional Issues in Engr	1.0 SH
Yr 4 FL	CIV Technical Elective	4.0 SH
Yr 4 FL	Engrg General Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 4 SP	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 S1	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 5 FL	A CIV U464 Prob & Engr Economy for CE	4.0 SH
Yr 5 FL	CIV Technical Elective	4.0 SH
Yr 5 FL	Engrg General Elective	4.0 SH
Yr 5 FL	Engrg Math/Science Elective	4.0 SH
	Semester Subtotal	16.0 SH
Yr 5 SP	Engrg General Elective	4.0 SH
Yr 5 SP	Engrg General Elective	4.0 SH
Yr 5 SP	CIV Technical Elective	4.0 SH
Yr 5 SP	ACIVU76X	4.0 SH
	Semester Subtotal	16.0 SH

MDS 010 BSCE Civil Engineering Div N

Yr 1 FL	C CHM U151 General Chem for Engineers Coreq(s): C CHM U152 C CHM U153	4.0 SH
Yr 1 FL	C CHM U153 Recitation for CHM U151 Coreq(s): C CHM U151 C CHM U152	0.0 SH
Yr 1 FL	A GE U110 Engineering Design	4.0 SH
Yr 1 FL	A GE U100 Intro to the Study of Engr	1.0 SH
Yr 1 FL	C MTH U241 Calculus 1 for Sci/Engr	4.0 SH
Yr 1 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 SP	C MTH U242 Calculus 2 for Sci/Engr	4.0 SH
Yr 1 SP	C PHY U151 Physics for Engineering 1 Coreq(s): C PHY U152 C PHY U153	4.0 SH
Yr 1 SP	C PHY U152 Lab for PHY U151 Coreq(s): C PHY U151 C PHY U153	1.0 SH
Yr 1 SP	C PHY U153 Interact Learn for PHY U151 Coreq(s): C PHY U151 C PHY U152	0.0 SH
Yr 1 SP	A GE U111 Engr Prob Solv and Comp	4.0 SH
Yr 1 SP	C ENG U111 College Writing	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 S1	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 1 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 2 FL	A CIV U334 Environmental Engr 1	4.0 SH
Yr 2 FL	A CIV U222 Recitation for CIV U221 Coreq(s): A CIV U221	0.0 SH
Yr 2 FL	C MTH U341 Calculus 3 for Sci/Engr Coreq(s): C MTH U342	4.0 SH
Yr 2 FL	A CIV U221 Statics & Strength of Material Coreq(s): A CIV U222	4.0 SH
Yr 2 FL	A CIV U300 Intro to Engr Coop Education	1.0 SH
Yr 2 FL	A CIV U260 Civil Engineering Materials Coreq(s): A CIV U261 A CIV U262	3.0 SH
Yr 2 FL	A CIV U261 Materials & Measurements Lab Coreq(s): A CIV U260 A CIV U264	2.0 SH
	Semester Subtotal	18.0 SH
Yr 2 SP	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 2 S1	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 2 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 FL	C PHY U155 Physics for Engineering 2 Coreq(s): C PHY U156 C PHY U157	4.0 SH
Yr 3 FL	C PHY U156 Lab for PHY U155 Coreq(s): C PHY U155 C PHY U157	1.0 SH
Yr 3 FL	C PHY U157 Interact Learn for PHY U155 Coreq(s): C PHY U155 C PHY U156	0.0 SH
Yr 3 FL	C MTH U343 Diff Eq and Lin Alg for Engr Coreq(s): C MTH U344	4.0 SH
Yr 3 FL	A CIV U320 Structural Analysis 1 Coreq(s): A CIV U321	4.0 SH
Yr 3 FL	A CIV U321 Recitation for CIV U320 Coreq(s): A CIV U320	0.0 SH
Yr 3 FL	ECN U115 or ECN U116	4.0 SH
	Semester Subtotal	17.0 SH

Yr 3 SP	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 S1	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 S2	A CIV U340 Soil Mechanics	4.0 SH
	Coreq(s): A CIV U341	
Yr 3 S2	A CIV U341 Lab for CIV U340	1.0 SH
	Coreq(s): A CIV U340	
Yr 3 S2	A CIV U331 Fluid Mechanics	4.0 SH
	Semester Subtotal	9.0 SH
Yr 4 FL	A CIV U324 Reinforced Concrete Design 1	4.0 SH
Yr 4 FL	C ENG U302 Advanced Writing in Tech Prof	4.0 SH
Yr 4 FL	A CIV U500 Professional Issues in Engr	1.0 SH
Yr 4 FL	CIV Technical Elective	4.0 SH
Yr 4 FL	Engrg Math/Science Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 4 SP	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 S1	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 S2	Engrg General Elective	4.0 SH
Yr 4 S2	Engrg General Elective	4.0 SH
	Semester Subtotal	8.0 SH
Yr 5 FL	A CIV U464 Prob & Engr Economy for CE	4.0 SH
Yr 5 FL	CIV Technical Elective	4.0 SH
Yr 5 FL	Engrg General Elective	4.0 SH
Yr 5 FL	CIV Technical Elective	4.0 SH
	Semester Subtotal	16.0 SH
Yr 5 SP	Engrg General Elective	4.0 SH
Yr 5 SP	Engrg General Elective	4.0 SH
Yr 5 SP	CIV Technical Elective	4.0 SH
Yr 5 SP	ACIVU76X	4.0 SH
	Semester Subtotal	16.0 SH

**MDS 035 BSCompE Computer Engineering
4 Year, 1 Co-op**

Yr 1 FL	C MTH U241 Calculus 1 for Sci/Engr	4.0 SH
Yr 1 FL	C CHM U151 General Chem for Engineers Coreq(s): C CHM U152 C CHM U153	4.0 SH
Yr 1 FL	C CHM U153 Recitation for CHM U151 Coreq(s): C CHM U151 C CHM U152	0.0 SH
Yr 1 FL	A GE U110 Engineering Design	4.0 SH
Yr 1 FL	A GE U100 Intro to the Study of Engr	1.0 SH
Yr 1 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 SP	C MTH U242 Calculus 2 for Sci/Engr	4.0 SH
Yr 1 SP	C PHY U151 Physics for Engineering 1 Coreq(s): C PHY U152 C PHY U153	4.0 SH
Yr 1 SP	C PHY U152 Lab for PHY U151 Coreq(s): C PHY U151 C PHY U153	1.0 SH
Yr 1 SP	C ENG U111 College Writing	4.0 SH
Yr 1 SP	A GE U111 Engr Prob Solv and Comp	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 S1	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 1 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 2 FL	C MTH U343 Diff Eq and Lin Alg for Engr Coreq(s): C MTH U344	4.0 SH
Yr 2 FL	C PHY U155 Physics for Engineering 2 Coreq(s): C PHY U156 C PHY U157	4.0 SH
Yr 2 FL	C PHY U156 Lab for PHY U155 Coreq(s): C PHY U155 C PHY U157	1.0 SH
Yr 2 FL	B CS U215 Algorithms, Data Structur Engr Coreq(s): B CS U216	4.0 SH
Yr 2 FL	B CS U216 Lab for CS U215 Coreq(s): B CS U215	1.0 SH
Yr 2 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	18.0 SH
Yr 2 SP	C MTH U230 Discrete Math	4.0 SH
Yr 2 SP	A ECE U322 Digital Logic Design Coreq(s): A ECE U323	4.0 SH
Yr 2 SP	A ECE U323 Lab for ECE U322 Coreq(s): A ECE U322	1.0 SH
Yr 2 SP	A ECE U400 Linear Circuits	4.0 SH
Yr 2 SP	A ECE U401 Intro to ECE Lab	1.0 SH
Yr 2 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	18.0 SH
Yr 2 S1	NU Core Course or Elective	4.0 SH
Yr 2 S1	NU Core Course or Elective	4.0 SH
	Semester Subtotal	8.0 SH
Yr 2 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 FL	A ECE U324 Computer Architecture & Org	4.0 SH
Yr 3 FL	A ECE U326 Optimization Methods	4.0 SH
Yr 3 FL	A ECE U402 Electronics Coreq(s): A ECE U403	4.0 SH
Yr 3 FL	A ECE U403 Lab for ECE U402 Coreq(s): A ECE U402	1.0 SH
Yr 3 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	17.0 SH

Yr 3 SP	C ENG U302 Advanced Writing in Tech Prof	4.0 SH
Yr 3 SP	A ECE U300 Intro to Eng Coop Education	1.0 SH
Yr 3 SP	NU Core Course or Elective	4.0 SH
Yr 3 SP	NU Core Course or Elective	4.0 SH
Yr 3 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 3 S1	A ECE U790 ECE Capstone 1	4.0 SH
Yr 3 S1	C MTH U481 Probability and Statistics	4.0 SH
	Semester Subtotal	8.0 SH
Yr 3 S2	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 FL	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 SP	A ECE U792 ECE Capstone 2	4.0 SH
Yr 4 SP	A ECE U628 Computer Networks Coreq(s): A ECE U629	4.0 SH
Yr 4 SP	A ECE U629 Internetworking Design Lab Coreq(s): A ECE U628	1.0 SH
Yr 4 SP	A ECE U500 Prof Issues in Engineering	1.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	18.0 SH

MDS 035 BSCompE Computer Engineering Div A

Yr 1 FL	C MTH U241 Calculus 1 for Sci/Engr	4.0 SH
Yr 1 FL	C CHM U151 General Chem for Engineers Coreq(s): C CHM U152 C CHM U153	4.0 SH
Yr 1 FL	C CHM U153 Recitation for CHM U151 Coreq(s): C CHM U151 C CHM U152	0.0 SH
Yr 1 FL	A GE U110 Engineering Design	4.0 SH
Yr 1 FL	A GE U100 Intro to the Study of Engr	1.0 SH
Yr 1 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 SP	C MTH U242 Calculus 2 for Sci/Engr	4.0 SH
Yr 1 SP	C PHY U151 Physics for Engineering 1 Coreq(s): C PHY U152 C PHY U153	4.0 SH
Yr 1 SP	C PHY U152 Lab for PHY U151 Coreq(s): C PHY U151 C PHY U153	1.0 SH
Yr 1 SP	C PHY U153 Interact Learn for PHY U151 Coreq(s): C PHY U151 C PHY U152	0.0 SH
Yr 1 SP	C ENG U111 College Writing	4.0 SH
Yr 1 SP	A GE U111 Engr Prob Solv and Comp	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 S1	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 1 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH

Yr 2 FL	C PHY U155 Physics for Engineering 2 Coreq(s): C PHY U156 C PHY U157	4.0 SH	Yr 4 S2	CO-OP	0.0 SH
Yr 2 FL	C PHY U156 Lab for PHY U155 Coreq(s): C PHY U155 C PHY U157	1.0 SH		Semester Subtotal	0.0 SH
Yr 2 FL	C PHY U157 Interact Learn for PHY U155 Coreq(s): C PHY U155 C PHY U156	0.0 SH	Yr 5 FL	CO-OP	0.0 SH
Yr 2 FL	C MTH U343 Diff Eq and Lin Alg for Engr Coreq(s): C MTH U344	4.0 SH		Semester Subtotal	0.0 SH
Yr 2 FL	B CS U215 Algorithms, Data Structur Engr Coreq(s): B CS U216	4.0 SH	Yr 5 SP	A ECE U792 ECE Capstone 2	4.0 SH
Yr 2 FL	B CS U216 Lab for CS U215 Coreq(s): B CS U215	1.0 SH	Yr 5 SP	NU Core Course or Elective	4.0 SH
Yr 2 FL	NU Core course or Elective	4.0 SH	Yr 5 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	18.0 SH	Yr 5 SP	NU Core Course or Elective	4.0 SH
				Semester Subtotal	16.0 SH
Yr 2 SP	C MTH U230 Discrete Math	4.0 SH	<hr/>		
Yr 2 SP	A ECE U400 Linear Circuits	4.0 SH	MDS 035 BSCompE Computer Engineering Div N		
Yr 2 SP	A ECE U401 Intro to ECE Lab	1.0 SH	Yr 1 FL	C MTH U241 Calculus 1 for Sci/Engr	4.0 SH
Yr 2 SP	A ECE U322 Digital Logic Design Coreq(s): A ECE U323	4.0 SH	Yr 1 FL	C CHM U151 General Chem for Engineers Coreq(s): C CHM U152 C CHM U153	4.0 SH
Yr 2 SP	A ECE U323 Lab for ECE U322 Coreq(s): A ECE U322	1.0 SH	Yr 1 FL	C CHM U153 Recitation for CHM U151 Coreq(s): C CHM U151 C CHM U152	0.0 SH
Yr 2 SP	A ECE U300 Intro to Eng Coop Education	1.0 SH	Yr 1 FL	A GE U110 Engineering Design	4.0 SH
Yr 2 SP	NU Core Course or Elective	4.0 SH	Yr 1 FL	A GE U100 Intro to the Study of Engr	1.0 SH
	Semester Subtotal	19.0 SH	Yr 1 FL	NU Core course or Elective	4.0 SH
				Semester Subtotal	17.0 SH
Yr 2 S1	VACATION	0.0 SH	Yr 1 SP	C MTH U242 Calculus 2 for Sci/Engr	4.0 SH
	Semester Subtotal	0.0 SH	Yr 1 SP	C PHY U151 Physics for Engineering 1 Coreq(s): C PHY U152 C PHY U153	4.0 SH
Yr 2 S2	CO-OP	0.0 SH	Yr 1 SP	C PHY U152 Lab for PHY U151 Coreq(s): C PHY U151 C PHY U153	1.0 SH
	Semester Subtotal	0.0 SH	Yr 1 SP	C PHY U153 Interact Learn for PHY U151 Coreq(s): C PHY U151 C PHY U152	0.0 SH
Yr 3 FL	CO-OP	0.0 SH	Yr 1 SP	A GE U111 Engr Prob Solv and Comp	4.0 SH
	Semester Subtotal	0.0 SH	Yr 1 SP	C ENG U111 College Writing	4.0 SH
Yr 3 SP	A ECE U324 Computer Architecture & Org	4.0 SH		Semester Subtotal	17.0 SH
Yr 3 SP	A ECE U402 Electronics Coreq(s): A ECE U403	4.0 SH	Yr 1 S1	VACATION	0.0 SH
Yr 3 SP	A ECE U403 Lab for ECE U402 Coreq(s): A ECE U402	1.0 SH		Semester Subtotal	0.0 SH
Yr 3 SP	A ECE U326 Optimization Methods	4.0 SH	Yr 1 S2	VACATION	0.0 SH
Yr 3 SP	NU Core Course or Elective	4.0 SH		Semester Subtotal	0.0 SH
	Semester Subtotal	17.0 SH	Yr 2 FL	C PHY U155 Physics for Engineering 2 Coreq(s): C PHY U156 C PHY U157	4.0 SH
Yr 3 S1	C MTH U481 Probability and Statistics	4.0 SH	Yr 2 FL	C PHY U156 Lab for PHY U155 Coreq(s): C PHY U155 C PHY U157	1.0 SH
Yr 3 S1	NU Core Course or Elective	4.0 SH	Yr 2 FL	C PHY U157 Interact Learn for PHY U155 Coreq(s): C PHY U155 C PHY U156	0.0 SH
	Semester Subtotal	8.0 SH	Yr 2 FL	C MTH U343 Diff Eq and Lin Alg for Engr Coreq(s): C MTH U344	4.0 SH
Yr 3 S2	CO-OP	0.0 SH	Yr 2 FL	A ECE U300 Intro to Eng Coop Education	1.0 SH
	Semester Subtotal	0.0 SH	Yr 2 FL	B CS U215 Algorithms, Data Structur Engr Coreq(s): B CS U216	4.0 SH
Yr 4 FL	CO-OP	0.0 SH	Yr 2 FL	B CS U216 Lab for CS U215 Coreq(s): B CS U215	1.0 SH
	Semester Subtotal	0.0 SH	Yr 2 FL	NU Core course or Elective	4.0 SH
Yr 4 SP	C ENG U302 Advanced Writing in Tech Prof	4.0 SH		Semester Subtotal	19.0 SH
Yr 4 SP	A ECE U628 Computer Networks Coreq(s): A ECE U629	4.0 SH	Yr 2 SP	CO-OP	0.0 SH
Yr 4 SP	A ECE U629 Internetworking Design Lab Coreq(s): A ECE U628	1.0 SH		Semester Subtotal	0.0 SH
Yr 4 SP	A ECE U500 Prof Issues in Engineering	1.0 SH	Yr 2 S1	CO-OP	0.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH		Semester Subtotal	0.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH	Yr 2 S2	VACATION	0.0 SH
	Semester Subtotal	18.0 SH		Semester Subtotal	0.0 SH
Yr 4 S1	A ECE U790 ECE Capstone 1	4.0 SH			
Yr 4 S1	NU Core Course or Elective	4.0 SH			
	Semester Subtotal	8.0 SH			

Yr 3 FL	C MTH U230 Discrete Math	4.0 SH
Yr 3 FL	A ECE U400 Linear Circuits	4.0 SH
Yr 3 FL	A ECE U401 Intro to ECE Lab	1.0 SH
Yr 3 FL	A ECE U322 Digital Logic Design	4.0 SH
	Coreq(s): A ECE U323	
Yr 3 FL	A ECE U323 Lab for ECE U322	1.0 SH
	Coreq(s): A ECE U322	
Yr 3 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	18.0 SH
Yr 3 SP	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 S1	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 S2	NU Core Course or Elective	4.0 SH
Yr 3 S2	NU Core Course or Elective	4.0 SH
	Semester Subtotal	8.0 SH
Yr 4 FL	A ECE U324 Computer Architecture & Org	4.0 SH
Yr 4 FL	A ECE U402 Electronics	4.0 SH
	Coreq(s): A ECE U403	
Yr 4 FL	A ECE U403 Lab for ECE U402	1.0 SH
	Coreq(s): A ECE U402	
Yr 4 FL	A ECE U326 Optimization Methods	4.0 SH
Yr 4 FL	A ECE U500 Prof Issues in Engineering	1.0 SH
Yr 4 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	18.0 SH
Yr 4 SP	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 S1	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 S2	C MTH U481 Probability and Statistics	4.0 SH
Yr 4 S2	A ECE U790 ECE Capstone 1	4.0 SH
	Semester Subtotal	8.0 SH
Yr 5 FL	C ENG U302 Advanced Writing in Tech Prof	4.0 SH
Yr 5 FL	A ECE U628 Computer Networks	4.0 SH
	Coreq(s): A ECE U629	
Yr 5 FL	A ECE U629 Internetworking Design Lab	1.0 SH
	Coreq(s): A ECE U628	
Yr 5 FL	NU Core Course or Elective	4.0 SH
Yr 5 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 5 SP	A ECE U792 ECE Capstone 2	4.0 SH
Yr 5 SP	NU Core Course or Elective	4.0 SH
Yr 5 SP	NU Core Course or Elective	4.0 SH
Yr 5 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	16.0 SH

**MDS 038 BSEE/BSCoPE Electrical/Computer Engineering
4 Year, 1 Co-op**

Yr 1 FL	C MTH U241 Calculus 1 for Sci/Engr	4.0 SH
Yr 1 FL	C CHM U151 General Chem for Engineers Coreq(s): C CHM U152 C CHM U153	4.0 SH
Yr 1 FL	C CHM U153 Recitation for CHM U151 Coreq(s): C CHM U151 C CHM U152	0.0 SH
Yr 1 FL	A GE U110 Engineering Design	4.0 SH
Yr 1 FL	A GE U100 Intro to the Study of Engr	1.0 SH
Yr 1 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 SP	C MTH U242 Calculus 2 for Sci/Engr	4.0 SH
Yr 1 SP	C PHY U151 Physics for Engineering 1 Coreq(s): C PHY U152 C PHY U153	4.0 SH
Yr 1 SP	C PHY U152 Lab for PHY U151 Coreq(s): C PHY U151 C PHY U153	1.0 SH
Yr 1 SP	C ENG U111 College Writing	4.0 SH
Yr 1 SP	A GE U111 Engr Prob Solv and Comp	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 S1	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 1 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 2 FL	C MTH U343 Diff Eq and Lin Alg for Engr Coreq(s): C MTH U344	4.0 SH
Yr 2 FL	C PHY U155 Physics for Engineering 2 Coreq(s): C PHY U156 C PHY U157	4.0 SH
Yr 2 FL	C PHY U156 Lab for PHY U155 Coreq(s): C PHY U155 C PHY U157	1.0 SH
Yr 2 FL	A ECE U400 Linear Circuits	4.0 SH
Yr 2 FL	A ECE U401 Intro to ECE Lab	1.0 SH
Yr 2 FL	B CS U215 Algorithms, Data Structur Engr Coreq(s): B CS U216	4.0 SH
Yr 2 FL	B CS U216 Lab for CS U215 Coreq(s): B CS U215	1.0 SH
	Semester Subtotal	19.0 SH
Yr 2 SP	C MTH U341 Calculus 3 for Sci/Engr Coreq(s): C MTH U342	4.0 SH
Yr 2 SP	C MTH U230 Discrete Math	4.0 SH
Yr 2 SP	A ECE U322 Digital Logic Design Coreq(s): A ECE U323	4.0 SH
Yr 2 SP	A ECE U323 Lab for ECE U322 Coreq(s): A ECE U322	1.0 SH
Yr 2 SP	A ECE U402 Electronics Coreq(s): A ECE U403	4.0 SH
Yr 2 SP	A ECE U403 Lab for ECE U402 Coreq(s): A ECE U402	1.0 SH
	Semester Subtotal	18.0 SH
Yr 2 S1	NU Core Course or Elective	4.0 SH
Yr 2 S1	NU Core Course or Elective	4.0 SH
	Semester Subtotal	8.0 SH
Yr 2 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH

Yr 3 FL	A ECE U326 Optimization Methods	4.0 SH
Yr 3 FL	A ECE U464 Linear Systems	4.0 SH
Yr 3 FL	A ECE U440 Electromagnetic Fields & Waves Coreq(s): A ECE U441	4.0 SH
Yr 3 FL	A ECE U441 Lab for ECE U440 Coreq(s): A ECE U440	1.0 SH
Yr 3 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 3 SP	C ENG U302 Advanced Writing in Tech Prof	4.0 SH
Yr 3 SP	A ECE U468 Noise & Stochastic Processes	4.0 SH
Yr 3 SP	A ECE U324 Computer Architecture & Org	4.0 SH
Yr 3 SP	A ECE U300 Intro to Eng Coop Education	1.0 SH
Yr 3 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 3 S1	A ECE U790 ECE Capstone 1	4.0 SH
Yr 3 S1	A ECE U572 Communications Systems	4.0 SH
	Semester Subtotal	8.0 SH
Yr 3 S2	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 FL	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 SP	A ECE U792 ECE Capstone 2	4.0 SH
Yr 4 SP	A ECE U628 Computer Networks Coreq(s): A ECE U629	4.0 SH
Yr 4 SP	A ECE U629 Internetworking Design Lab Coreq(s): A ECE U628	1.0 SH
Yr 4 SP	A ECE U500 Prof Issues in Engineering	1.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	18.0 SH

**MDS 038 BSEE/BSCoPE Electrical/Computer Engineering
Div A**

Yr 1 FL	C MTH U241 Calculus 1 for Sci/Engr	4.0 SH
Yr 1 FL	C CHM U151 General Chem for Engineers Coreq(s): C CHM U152 C CHM U153	4.0 SH
Yr 1 FL	C CHM U153 Recitation for CHM U151 Coreq(s): C CHM U151 C CHM U152	0.0 SH
Yr 1 FL	A GE U110 Engineering Design	4.0 SH
Yr 1 FL	A GE U100 Intro to the Study of Engr	1.0 SH
Yr 1 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 SP	C MTH U242 Calculus 2 for Sci/Engr	4.0 SH
Yr 1 SP	C PHY U151 Physics for Engineering 1 Coreq(s): C PHY U152 C PHY U153	4.0 SH
Yr 1 SP	C PHY U152 Lab for PHY U151 Coreq(s): C PHY U151 C PHY U153	1.0 SH
Yr 1 SP	C PHY U153 Interact Learn for PHY U151 Coreq(s): C PHY U151 C PHY U152	0.0 SH
Yr 1 SP	A GE U111 Engr Prob Solv and Comp	4.0 SH
Yr 1 SP	C ENG U111 College Writing	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 S1	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 1 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH

Yr 2 FL	C PHY U155 Physics for Engineering 2 Coreq(s): C PHY U156 C PHY U157	4.0 SH	Yr 4 S1	A ECE U572 Communications Systems	4.0 SH
Yr 2 FL	C PHY U156 Lab for PHY U155 Coreq(s): C PHY U155 C PHY U157	1.0 SH	Yr 4 S1	A ECE U790 ECE Capstone 1	4.0 SH
Yr 2 FL	C PHY U157 Interact Learn for PHY U155 Coreq(s): C PHY U155 C PHY U156	0.0 SH		Semester Subtotal	8.0 SH
Yr 2 FL	C MTH U343 Diff Eq and Lin Alg for Engr Coreq(s): C MTH U344	4.0 SH	Yr 4 S2	CO-OP	0.0 SH
Yr 2 FL	A ECE U400 Linear Circuits	4.0 SH		Semester Subtotal	0.0 SH
Yr 2 FL	A ECE U401 Intro to ECE Lab	1.0 SH	Yr 5 FL	CO-OP	0.0 SH
Yr 2 FL	B CS U215 Algorithms, Data Structur Engr Coreq(s): B CS U216	4.0 SH		Semester Subtotal	0.0 SH
Yr 2 FL	B CS U216 Lab for CS U215 Coreq(s): B CS U215	1.0 SH	Yr 5 SP	A ECE U792 ECE Capstone 2	4.0 SH
	Semester Subtotal	19.0 SH	Yr 5 SP	A ECE U628 Computer Networks Coreq(s): A ECE U629	4.0 SH
Yr 2 SP	C MTH U341 Calculus 3 for Sci/Engr Coreq(s): C MTH U342	4.0 SH	Yr 5 SP	A ECE U629 Internetworking Design Lab Coreq(s): A ECE U628	1.0 SH
Yr 2 SP	A ECE U402 Electronics Coreq(s): A ECE U403	4.0 SH	Yr 5 SP	NU Core Course or Elective	4.0 SH
Yr 2 SP	A ECE U403 Lab for ECE U402 Coreq(s): A ECE U402	1.0 SH	Yr 5 SP	NU Core Course or Elective	4.0 SH
Yr 2 SP	A ECE U322 Digital Logic Design Coreq(s): A ECE U323	4.0 SH		Semester Subtotal	17.0 SH
Yr 2 SP	A ECE U323 Lab for ECE U322 Coreq(s): A ECE U322	1.0 SH	MDS 038 BSEE/BSCompE Electrical/Computer Engineering Div N		
Yr 2 SP	C MTH U230 Discrete Math	4.0 SH	Yr 1 FL	C MTH U241 Calculus 1 for Sci/Engr	4.0 SH
Yr 2 SP	A ECE U300 Intro to Eng Coop Education	1.0 SH	Yr 1 FL	C CHM U151 General Chem for Engineers Coreq(s): C CHM U152 C CHM U153	4.0 SH
	Semester Subtotal	19.0 SH	Yr 1 FL	C CHM U153 Recitation for CHM U151 Coreq(s): C CHM U151 C CHM U152	0.0 SH
Yr 2 S1	VACATION	0.0 SH	Yr 1 FL	A GE U110 Engineering Design	4.0 SH
	Semester Subtotal	0.0 SH	Yr 1 FL	A GE U100 Intro to the Study of Engr	1.0 SH
Yr 2 S2	CO-OP	0.0 SH	Yr 1 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	0.0 SH		Semester Subtotal	17.0 SH
Yr 3 FL	CO-OP	0.0 SH	Yr 1 SP	C MTH U242 Calculus 2 for Sci/Engr	4.0 SH
	Semester Subtotal	0.0 SH	Yr 1 SP	C PHY U151 Physics for Engineering 1 Coreq(s): C PHY U152 C PHY U153	4.0 SH
Yr 3 SP	A ECE U440 Electromagnetic Fields & Waves Coreq(s): A ECE U441	4.0 SH	Yr 1 SP	C PHY U152 Lab for PHY U151 Coreq(s): C PHY U151 C PHY U153	1.0 SH
Yr 3 SP	A ECE U441 Lab for ECE U440 Coreq(s): A ECE U440	1.0 SH	Yr 1 SP	C PHY U153 Interact Learn for PHY U151 Coreq(s): C PHY U151 C PHY U152	0.0 SH
Yr 3 SP	A ECE U464 Linear Systems	4.0 SH	Yr 1 SP	A GE U111 Engr Prob Solv and Comp	4.0 SH
Yr 3 SP	A ECE U326 Optimization Methods	4.0 SH	Yr 1 SP	C ENG U111 College Writing	4.0 SH
Yr 3 SP	NU Core course or Elective	4.0 SH		Semester Subtotal	17.0 SH
	Semester Subtotal	17.0 SH	Yr 1 S1	VACATION	0.0 SH
Yr 3 S1	NU Core Course or Elective	4.0 SH		Semester Subtotal	0.0 SH
Yr 3 S1	NU Core Course or Elective	4.0 SH	Yr 1 S2	VACATION	0.0 SH
	Semester Subtotal	8.0 SH		Semester Subtotal	0.0 SH
Yr 3 S2	CO-OP	0.0 SH	Yr 2 FL	C PHY U155 Physics for Engineering 2 Coreq(s): C PHY U156 C PHY U157	4.0 SH
	Semester Subtotal	0.0 SH	Yr 2 FL	C PHY U156 Lab for PHY U155 Coreq(s): C PHY U155 C PHY U157	1.0 SH
Yr 4 FL	CO-OP	0.0 SH	Yr 2 FL	C PHY U157 Interact Learn for PHY U155 Coreq(s): C PHY U155 C PHY U156	0.0 SH
	Semester Subtotal	0.0 SH	Yr 2 FL	A ECE U400 Linear Circuits	4.0 SH
Yr 4 SP	C ENG U302 Advanced Writing in Tech Prof	4.0 SH	Yr 2 FL	A ECE U401 Intro to ECE Lab	1.0 SH
Yr 4 SP	A ECE U468 Noise & Stochastic Processes	4.0 SH	Yr 2 FL	B CS U215 Algorithms, Data Structur Engr Coreq(s): B CS U216	4.0 SH
Yr 4 SP	A ECE U324 Computer Architecture & Org	4.0 SH	Yr 2 FL	B CS U216 Lab for CS U215 Coreq(s): B CS U215	1.0 SH
Yr 4 SP	A ECE U500 Prof Issues in Engineering	1.0 SH	Yr 2 FL	C MTH U343 Diff Eq and Lin Alg for Engr Coreq(s): C MTH U344	4.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH	Yr 2 FL	A ECE U300 Intro to Eng Coop Education	1.0 SH
	Semester Subtotal	17.0 SH		Semester Subtotal	20.0 SH

Yr 2 SP	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 2 S1	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 2 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 FL	C MTH U341 Calculus 3 for Sci/Engr	4.0 SH
	Coreq(s): C MTH U342	
Yr 3 FL	A ECE U402 Electronics	4.0 SH
	Coreq(s): A ECE U403	
Yr 3 FL	A ECE U403 Lab for ECE U402	1.0 SH
	Coreq(s): A ECE U402	
Yr 3 FL	A ECE U322 Digital Logic Design	4.0 SH
	Coreq(s): A ECE U323	
Yr 3 FL	A ECE U323 Lab for ECE U322	1.0 SH
	Coreq(s): A ECE U322	
Yr 3 FL	C MTH U230 Discrete Math	4.0 SH
	Semester Subtotal	18.0 SH
Yr 3 SP	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 S1	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 S2	NU Core course or Elective	4.0 SH
Yr 3 S2	NU Core Course or Elective	4.0 SH
	Semester Subtotal	8.0 SH
Yr 4 FL	A ECE U440 Electromagnetic Fields & Waves	4.0 SH
	Coreq(s): A ECE U441	
Yr 4 FL	A ECE U441 Lab for ECE U440	1.0 SH
	Coreq(s): A ECE U440	
Yr 4 FL	A ECE U464 Linear Systems	4.0 SH
Yr 4 FL	A ECE U326 Optimization Methods	4.0 SH
Yr 4 FL	A ECE U500 Prof Issues in Engineering	1.0 SH
Yr 4 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	18.0 SH
Yr 4 SP	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 S1	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 S2	A ECE U468 Noise & Stochastic Processes	4.0 SH
Yr 4 S2	A ECE U790 ECE Capstone 1	4.0 SH
	Semester Subtotal	8.0 SH
Yr 5 FL	A ECE U324 Computer Architecture & Org	4.0 SH
Yr 5 FL	A ECE U572 Communications Systems	4.0 SH
Yr 5 FL	C ENG U302 Advanced Writing in Tech Prof	4.0 SH
Yr 5 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	16.0 SH
Yr 5 SP	A ECE U792 ECE Capstone 2	4.0 SH
Yr 5 SP	A ECE U628 Computer Networks	4.0 SH
	Coreq(s): A ECE U629	
Yr 5 SP	A ECE U629 Internetworking Design Lab	1.0 SH
	Coreq(s): A ECE U628	
Yr 5 SP	NU Core Course or Elective	4.0 SH
Yr 5 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	17.0 SH

MDS 036 BS Electrical Engineering & Physics Div A

Yr 1 FL	C MTH U241 Calculus 1 for Sci/Engr	4.0 SH
Yr 1 FL	C CHM U151 General Chem for Engineers Coreq(s): C CHM U152 C CHM U153	4.0 SH
Yr 1 FL	C CHM U153 Recitation for CHM U151 Coreq(s): C CHM U151 C CHM U152	0.0 SH
Yr 1 FL	A GE U110 Engineering Design	4.0 SH
Yr 1 FL	A GE U100 Intro to the Study of Engr	1.0 SH
Yr 1 FL	C PHY U161 Physics 1 Coreq(s): C PHY U162	4.0 SH
Yr 1 FL	C PHY U162 Lab for PHY U161 Coreq(s): C PHY U161	1.0 SH
	Semester Subtotal	18.0 SH
Yr 1 SP	C MTH U242 Calculus 2 for Sci/Engr	4.0 SH
Yr 1 SP	C PHY U165 Physics 2 Coreq(s): C PHY U166	4.0 SH
Yr 1 SP	C PHY U166 Lab for PHY U165 Coreq(s): C PHY U165	1.0 SH
Yr 1 SP	C ENG U111 College Writing	4.0 SH
Yr 1 SP	A GE U111 Engr Prob Solv and Comp	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 S1	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 1 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 2 FL	C MTH U341 Calculus 3 for Sci/Engr Coreq(s): C MTH U342	4.0 SH
Yr 2 FL	C MTH U343 Diff Eq and Lin Alg for Engr Coreq(s): C MTH U344	4.0 SH
Yr 2 FL	A ECE U400 Linear Circuits	4.0 SH
Yr 2 FL	A ECE U401 Intro to ECE Lab	1.0 SH
Yr 2 FL	C PHY U303 Modern Physics	4.0 SH
	Semester Subtotal	17.0 SH
Yr 2 SP	C PHY U305 Thermo & Statistical Mechanics	4.0 SH
Yr 2 SP	A ECE U322 Digital Logic Design Coreq(s): A ECE U323	4.0 SH
Yr 2 SP	A ECE U323 Lab for ECE U322 Coreq(s): A ECE U322	1.0 SH
Yr 2 SP	A ECE U402 Electronics Coreq(s): A ECE U403	4.0 SH
Yr 2 SP	A ECE U403 Lab for ECE U402 Coreq(s): A ECE U402	1.0 SH
Yr 2 SP	A ECE U300 Intro to Eng Coop Education	1.0 SH
Yr 2 SP	NU Core course or Elective	4.0 SH
	Semester Subtotal	19.0 SH
Yr 2 S1	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 2 S2	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 FL	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH

Yr 3 SP	A ECE U440 Electromagnetic Fields & Waves Coreq(s): A ECE U441	4.0 SH
Yr 3 SP	A ECE U441 Lab for ECE U440 Coreq(s): A ECE U440	1.0 SH
Yr 3 SP	A ECE U464 Linear Systems	4.0 SH
Yr 3 SP	C PHY U602 Electricity & Magnetism	4.0 SH
Yr 3 SP	NU Core course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 3 S1	B CS U215 Algorithms, Data Structur Engr Coreq(s): B CS U216	4.0 SH
Yr 3 S1	B CS U216 Lab for CS U215 Coreq(s): B CS U215	1.0 SH
Yr 3 S1	C PHY U600 Advanced Physics Lab 1	4.0 SH
	Semester Subtotal	9.0 SH
Yr 3 S2	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 FL	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 SP	A ECE U468 Noise & Stochastic Processes	4.0 SH
Yr 4 SP	C ENG U302 Advanced Writing in Tech Prof	4.0 SH
Yr 4 SP	C PHY U617 Quantum Mechanics	4.0 SH
Yr 4 SP	A ECE U500 Prof Issues in Engineering	1.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 4 S1	A ECE U790 ECE Capstone 1	4.0 SH
Yr 4 S1	A ECE U572 Communications Systems	4.0 SH
	Semester Subtotal	8.0 SH
Yr 4 S2	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 5 FL	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 5 SP	A ECE U792 ECE Capstone 2	4.0 SH
Yr 5 SP	PHY Advanced Elective	4.0 SH
Yr 5 SP	NU Core Course or Elective	4.0 SH
Yr 5 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	16.0 SH

MDS 030 BSEE Electrical Engineering**4 Year, 1 Co-op**

Yr 1 FL	C MTH U241 Calculus 1 for Sci/Engr	4.0 SH
Yr 1 FL	C CHM U151 General Chem for Engineers	4.0 SH
	Coreq(s): C CHM U152 C CHM U153	
Yr 1 FL	C CHM U153 Recitation for CHM U151	0.0 SH
	Coreq(s): C CHM U151 C CHM U152	
Yr 1 FL	A GE U110 Engineering Design	4.0 SH
Yr 1 FL	A GE U100 Intro to the Study of Engr	1.0 SH
Yr 1 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 SP	C MTH U242 Calculus 2 for Sci/Engr	4.0 SH
Yr 1 SP	C PHY U151 Physics for Engineering 1	4.0 SH
	Coreq(s): C PHY U152 C PHY U153	
Yr 1 SP	C PHY U152 Lab for PHY U151	1.0 SH
	Coreq(s): C PHY U151 C PHY U153	
Yr 1 SP	C ENG U111 College Writing	4.0 SH
Yr 1 SP	A GE U111 Engr Prob Solv and Comp	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 S1	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 1 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 2 FL	C MTH U343 Diff Eq and Lin Alg for Engr	4.0 SH
	Coreq(s): C MTH U344	
Yr 2 FL	C PHY U155 Physics for Engineering 2	4.0 SH
	Coreq(s): C PHY U156 C PHY U157	
Yr 2 FL	C PHY U156 Lab for PHY U155	1.0 SH
	Coreq(s): C PHY U155 C PHY U157	
Yr 2 FL	A ECE U400 Linear Circuits	4.0 SH
Yr 2 FL	A ECE U401 Intro to ECE Lab	1.0 SH
Yr 2 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	18.0 SH
Yr 2 SP	C MTH U341 Calculus 3 for Sci/Engr	4.0 SH
	Coreq(s): C MTH U342	
Yr 2 SP	A ECE U322 Digital Logic Design	4.0 SH
	Coreq(s): A ECE U323	
Yr 2 SP	A ECE U323 Lab for ECE U322	1.0 SH
	Coreq(s): A ECE U322	
Yr 2 SP	A ECE U402 Electronics	4.0 SH
	Coreq(s): A ECE U403	
Yr 2 SP	A ECE U403 Lab for ECE U402	1.0 SH
	Coreq(s): A ECE U402	
Yr 2 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	18.0 SH
Yr 2 S1	B CS U215 Algorithms, Data Structur Engr	4.0 SH
	Coreq(s): B CS U216	
Yr 2 S1	B CS U216 Lab for CS U215	1.0 SH
	Coreq(s): B CS U215	
Yr 2 S1	NU Core Course or Elective	4.0 SH
	Semester Subtotal	9.0 SH
Yr 2 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH

Yr 3 FL	A ECE U464 Linear Systems	4.0 SH
Yr 3 FL	A ECE U440 Electromagnetic Fields & Waves	4.0 SH
	Coreq(s): A ECE U441	
Yr 3 FL	A ECE U441 Lab for ECE U440	1.0 SH
	Coreq(s): A ECE U440	
Yr 3 FL	C ENG U302 Advanced Writing in Tech Prof	4.0 SH
Yr 3 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 3 SP	A ECE U468 Noise & Stochastic Processes	4.0 SH
Yr 3 SP	A ECE U300 Intro to Eng Coop Education	1.0 SH
Yr 3 SP	NU Core Course or Elective	4.0 SH
Yr 3 SP	NU Core Course or Elective	4.0 SH
Yr 3 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 3 S1	A ECE U790 ECE Capstone 1	4.0 SH
Yr 3 S1	A ECE U572 Communications Systems	4.0 SH
	Semester Subtotal	8.0 SH
Yr 3 S2	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 FL	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 SP	A ECE U792 ECE Capstone 2	4.0 SH
Yr 4 SP	A ECE U500 Prof Issues in Engineering	1.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	17.0 SH

MDS 030 BSEE Electrical Engineering Div A

Yr 1 FL	C MTH U241 Calculus 1 for Sci/Engr	4.0 SH
Yr 1 FL	C CHM U151 General Chem for Engineers	4.0 SH
	Coreq(s): C CHM U152 C CHM U153	
Yr 1 FL	C CHM U153 Recitation for CHM U151	0.0 SH
	Coreq(s): C CHM U151 C CHM U152	
Yr 1 FL	A GE U110 Engineering Design	4.0 SH
Yr 1 FL	A GE U100 Intro to the Study of Engr	1.0 SH
Yr 1 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 SP	C MTH U242 Calculus 2 for Sci/Engr	4.0 SH
Yr 1 SP	C PHY U151 Physics for Engineering 1	4.0 SH
	Coreq(s): C PHY U152 C PHY U153	
Yr 1 SP	C PHY U152 Lab for PHY U151	1.0 SH
	Coreq(s): C PHY U151 C PHY U153	
Yr 1 SP	C PHY U153 Interact Learn for PHY U151	0.0 SH
	Coreq(s): C PHY U151 C PHY U152	
Yr 1 SP	A GE U111 Engr Prob Solv and Comp	4.0 SH
Yr 1 SP	C ENG U111 College Writing	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 S1	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 1 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH

Yr 2 FL	C PHY U155 Physics for Engineering 2 Coreq(s): C PHY U156 C PHY U157	4.0 SH	Yr 4 S1	A ECE U572 Communications Systems	4.0 SH
Yr 2 FL	C PHY U156 Lab for PHY U155 Coreq(s): C PHY U155 C PHY U157	1.0 SH	Yr 4 S1	A ECE U790 ECE Capstone 1	4.0 SH
Yr 2 FL	C PHY U157 Interact Learn for PHY U155 Coreq(s): C PHY U155 C PHY U156	0.0 SH		Semester Subtotal	8.0 SH
Yr 2 FL	A ECE U400 Linear Circuits	4.0 SH	Yr 4 S2	CO-OP	0.0 SH
Yr 2 FL	A ECE U401 Intro to ECE Lab	1.0 SH		Semester Subtotal	0.0 SH
Yr 2 FL	C MTH U343 Diff Eq and Lin Alg for Engr Coreq(s): C MTH U344	4.0 SH	Yr 5 FL	CO-OP	0.0 SH
Yr 2 FL	NU Core course or Elective	4.0 SH		Semester Subtotal	0.0 SH
	Semester Subtotal	18.0 SH	Yr 5 SP	A ECE U792 ECE Capstone 2	4.0 SH
Yr 2 SP	C MTH U341 Calculus 3 for Sci/Engr Coreq(s): C MTH U342	4.0 SH	Yr 5 SP	NU Core Course or Elective	4.0 SH
Yr 2 SP	A ECE U402 Electronics Coreq(s): A ECE U403	4.0 SH	Yr 5 SP	NU Core Course or Elective	4.0 SH
Yr 2 SP	A ECE U403 Lab for ECE U402 Coreq(s): A ECE U402	1.0 SH	Yr 5 SP	NU Core Course or Elective	4.0 SH
Yr 2 SP	A ECE U322 Digital Logic Design Coreq(s): A ECE U323	4.0 SH		Semester Subtotal	16.0 SH
Yr 2 SP	A ECE U323 Lab for ECE U322 Coreq(s): A ECE U322	1.0 SH	<hr/> MDS 030 BSEE Electrical Engineering Div N		
Yr 2 SP	A ECE U300 Intro to Eng Coop Education	1.0 SH	Yr 1 FL	C MTH U241 Calculus 1 for Sci/Engr	4.0 SH
Yr 2 SP	NU Core Course or Elective	4.0 SH	Yr 1 FL	C CHM U151 General Chem for Engineers Coreq(s): C CHM U152 C CHM U153	4.0 SH
	Semester Subtotal	19.0 SH	Yr 1 FL	C CHM U153 Recitation for CHM U151 Coreq(s): C CHM U151 C CHM U152	0.0 SH
Yr 2 S1	VACATION	0.0 SH	Yr 1 FL	A GE U110 Engineering Design	4.0 SH
	Semester Subtotal	0.0 SH	Yr 1 FL	A GE U100 Intro to the Study of Engr	1.0 SH
Yr 2 S2	CO-OP	0.0 SH	Yr 1 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	0.0 SH		Semester Subtotal	17.0 SH
Yr 3 FL	CO-OP	0.0 SH	Yr 1 SP	C MTH U242 Calculus 2 for Sci/Engr	4.0 SH
	Semester Subtotal	0.0 SH	Yr 1 SP	C PHY U151 Physics for Engineering 1 Coreq(s): C PHY U152 C PHY U153	4.0 SH
Yr 3 SP	A ECE U440 Electromagnetic Fields & Waves Coreq(s): A ECE U441	4.0 SH	Yr 1 SP	C PHY U152 Lab for PHY U151 Coreq(s): C PHY U151 C PHY U153	1.0 SH
Yr 3 SP	A ECE U441 Lab for ECE U440 Coreq(s): A ECE U440	1.0 SH	Yr 1 SP	C PHY U153 Interact Learn for PHY U151 Coreq(s): C PHY U151 C PHY U152	0.0 SH
Yr 3 SP	A ECE U464 Linear Systems	4.0 SH	Yr 1 SP	A GE U111 Engr Prob Solv and Comp	4.0 SH
Yr 3 SP	NU Core Course or Elective	4.0 SH	Yr 1 SP	C ENG U111 College Writing	4.0 SH
Yr 3 SP	NU Core Course or Elective	4.0 SH		Semester Subtotal	17.0 SH
	Semester Subtotal	17.0 SH	Yr 1 S1	VACATION	0.0 SH
Yr 3 S1	B CS U215 Algorithms, Data Structur Engr Coreq(s): B CS U216	4.0 SH		Semester Subtotal	0.0 SH
Yr 3 S1	B CS U216 Lab for CS U215 Coreq(s): B CS U215	1.0 SH	Yr 1 S2	VACATION	0.0 SH
Yr 3 S1	NU Core Course or Elective	4.0 SH		Semester Subtotal	0.0 SH
	Semester Subtotal	9.0 SH	Yr 2 FL	C PHY U155 Physics for Engineering 2 Coreq(s): C PHY U156 C PHY U157	4.0 SH
Yr 3 S2	CO-OP	0.0 SH	Yr 2 FL	C PHY U156 Lab for PHY U155 Coreq(s): C PHY U155 C PHY U157	1.0 SH
	Semester Subtotal	0.0 SH	Yr 2 FL	C PHY U157 Interact Learn for PHY U155 Coreq(s): C PHY U155 C PHY U156	0.0 SH
Yr 4 FL	CO-OP	0.0 SH	Yr 2 FL	C MTH U343 Diff Eq and Lin Alg for Engr Coreq(s): C MTH U344	4.0 SH
	Semester Subtotal	0.0 SH	Yr 2 FL	A ECE U400 Linear Circuits	4.0 SH
Yr 4 SP	C ENG U302 Advanced Writing in Tech Prof	4.0 SH	Yr 2 FL	A ECE U401 Intro to ECE Lab	1.0 SH
Yr 4 SP	A ECE U468 Noise & Stochastic Processes	4.0 SH	Yr 2 FL	A ECE U300 Intro to Eng Coop Education	1.0 SH
Yr 4 SP	A ECE U500 Prof Issues in Engineering	1.0 SH	Yr 2 FL	NU Core course or Elective	4.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH		Semester Subtotal	19.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH	Yr 2 SP	CO-OP	0.0 SH
	Semester Subtotal	17.0 SH		Semester Subtotal	0.0 SH
			Yr 2 S1	CO-OP	0.0 SH
				Semester Subtotal	0.0 SH

Yr 2 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 FL	C MTH U341 Calculus 3 for Sci/Engr	4.0 SH
	Coreq(s): C MTH U342	
Yr 3 FL	A ECE U402 Electronics	4.0 SH
	Coreq(s): A ECE U403	
Yr 3 FL	A ECE U403 Lab for ECE U402	1.0 SH
	Coreq(s): A ECE U402	
Yr 3 FL	A ECE U322 Digital Logic Design	4.0 SH
	Coreq(s): A ECE U323	
Yr 3 FL	A ECE U323 Lab for ECE U322	1.0 SH
	Coreq(s): A ECE U322	
Yr 3 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	18.0 SH
Yr 3 SP	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 S1	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 S2	B CS U215 Algorithms, Data Structur Engr	4.0 SH
	Coreq(s): B CS U216	
Yr 3 S2	B CS U216 Lab for CS U215	1.0 SH
	Coreq(s): B CS U215	
Yr 3 S2	NU Core Course or Elective	4.0 SH
	Semester Subtotal	9.0 SH
Yr 4 FL	A ECE U440 Electromagnetic Fields & Waves	4.0 SH
	Coreq(s): A ECE U441	
Yr 4 FL	A ECE U441 Lab for ECE U440	1.0 SH
	Coreq(s): A ECE U440	
Yr 4 FL	A ECE U464 Linear Systems	4.0 SH
Yr 4 FL	C ENG U302 Advanced Writing in Tech Prof	4.0 SH
Yr 4 FL	A ECE U500 Prof Issues in Engineering	1.0 SH
Yr 4 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	18.0 SH
Yr 4 SP	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 S1	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 S2	A ECE U468 Noise & Stochastic Processes	4.0 SH
Yr 4 S2	A ECE U790 ECE Capstone 1	4.0 SH
	Semester Subtotal	8.0 SH
Yr 5 FL	A ECE U572 Communications Systems	4.0 SH
Yr 5 FL	NU Core Course or Elective	4.0 SH
Yr 5 FL	NU Core Course or Elective	4.0 SH
Yr 5 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	16.0 SH
Yr 5 SP	A ECE U792 ECE Capstone 2	4.0 SH
Yr 5 SP	NU Core Course or Elective	4.0 SH
Yr 5 SP	NU Core Course or Elective	4.0 SH
Yr 5 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	16.0 SH

**MDS 050 BSIE Industrial Engineering
4 Year, 1 Co-op**

Yr 1 FL	A GE U110 Engineering Design	4.0 SH
Yr 1 FL	A GE U100 Intro to the Study of Engr	1.0 SH
Yr 1 FL	C MTH U241 Calculus 1 for Sci/Engr	4.0 SH
Yr 1 FL	C CHM U151 General Chem for Engineers	4.0 SH
	Coreq(s): C CHM U152 C CHM U153	
Yr 1 FL	C CHM U153 Recitation for CHM U151	0.0 SH
	Coreq(s): C CHM U151 C CHM U152	
Yr 1 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 SP	A GE U111 Engr Prob Solv and Comp	4.0 SH
Yr 1 SP	C MTH U242 Calculus 2 for Sci/Engr	4.0 SH
Yr 1 SP	C PHY U151 Physics for Engineering 1	4.0 SH
	Coreq(s): C PHY U152 C PHY U153	
Yr 1 SP	C PHY U152 Lab for PHY U151	1.0 SH
	Coreq(s): C PHY U151 C PHY U153	
Yr 1 SP	C ENG U111 College Writing	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 S1	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 1 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 2 FL	C MTH U341 Calculus 3 for Sci/Engr	4.0 SH
	Coreq(s): C MTH U342	
Yr 2 FL	A MIM U310 Intro to Industrl Engineering	4.0 SH
Yr 2 FL	A MIM U412 Engineering Prob and Stats	4.0 SH
Yr 2 FL	C PHY U155 Physics for Engineering 2	4.0 SH
	Coreq(s): C PHY U156 C PHY U157	
Yr 2 FL	C PHY U156 Lab for PHY U155	1.0 SH
	Coreq(s): C PHY U155 C PHY U157	
	Semester Subtotal	17.0 SH
Yr 2 SP	C MTH U343 Diff Eq and Lin Alg for Engr	4.0 SH
	Coreq(s): C MTH U344	
Yr 2 SP	A MIM U420 Computers & Information System	4.0 SH
Yr 2 SP	A MIM U510 Digital Simulation Techniques	4.0 SH
Yr 2 SP	A MIM U530 Manuf Systems & Techniques	4.0 SH
	Coreq(s): A MIM U531	
Yr 2 SP	A MIM U531 Lab for MIM U530	1.0 SH
	Coreq(s): A MIM U530	
Yr 2 SP	A MIM U300 Intro to Engr Coop Education	1.0 SH
	Semester Subtotal	18.0 SH
Yr 2 S1	NU Core Course or Elective	4.0 SH
Yr 2 S1	NU Core Course or Elective	4.0 SH
	Semester Subtotal	8.0 SH
Yr 2 S2	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 FL	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 SP	C ENG U302 Advanced Writing in Tech Prof	4.0 SH
Yr 3 SP	A MIM U425 Engineering Database Systems	4.0 SH
Yr 3 SP	A MIM U515 Operations Research	4.0 SH
Yr 3 SP	A MIM U500 Prof Issues in Engineering	1.0 SH
Yr 3 SP	Engrg General Elective	4.0 SH
	Semester Subtotal	17.0 SH

Yr 3 S1	NU Core Course or Elective	4.0 SH
Yr 3 S1	NU Core course or Elective	4.0 SH
	Semester Subtotal	8.0 SH

Yr 3 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH

Yr 4 FL	A MIM U512 Engineering Economy	4.0 SH
Yr 4 FL	A MIM U525 Logistics & SuppChain Managemt	4.0 SH
Yr 4 FL	A MIM U516 Quality Assurance	4.0 SH
Yr 4 FL	A MIM U701 Capstone Design 1	1.0 SH
Yr 4 FL	Engrg General Elective	4.0 SH
	Semester Subtotal	17.0 SH

Yr 4 SP	A MIM U702 Capstone Design 2	5.0 SH
Yr 4 SP	A MIM U522 Human Machine Systems	4.0 SH

	Coreq(s): A MIM U523	
Yr 4 SP	A MIM U523 Lab for MIM U522	1.0 SH
	Coreq(s): A MIM U522	
Yr 4 SP	A MIM U520 Stochastic Modeling	4.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	18.0 SH

MDS 050 BSIE Industrial Engineering Div A

Yr 1 FL	C MTH U241 Calculus 1 for Sci/Engr	4.0 SH
Yr 1 FL	C CHM U151 General Chem for Engineers	4.0 SH
	Coreq(s): C CHM U152 C CHM U153	
Yr 1 FL	C CHM U153 Recitation for CHM U151	0.0 SH
	Coreq(s): C CHM U151 C CHM U152	
Yr 1 FL	A GE U110 Engineering Design	4.0 SH
Yr 1 FL	A GE U100 Intro to the Study of Engr	1.0 SH
Yr 1 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	17.0 SH

Yr 1 SP	A GE U111 Engr Prob Solv and Comp	4.0 SH
Yr 1 SP	C MTH U242 Calculus 2 for Sci/Engr	4.0 SH
Yr 1 SP	C PHY U151 Physics for Engineering 1	4.0 SH

	Coreq(s): C PHY U152 C PHY U153	
Yr 1 SP	C PHY U152 Lab for PHY U151	1.0 SH
	Coreq(s): C PHY U151 C PHY U153	
Yr 1 SP	C PHY U153 Interact Learn for PHY U151	0.0 SH
	Coreq(s): C PHY U151 C PHY U152	
Yr 1 SP	C ENG U111 College Writing	4.0 SH
	Semester Subtotal	17.0 SH

Yr 1 S1	VACATION	0.0 SH
	Semester Subtotal	0.0 SH

Yr 1 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH

Yr 2 FL	C MTH U341 Calculus 3 for Sci/Engr	4.0 SH
	Coreq(s): C MTH U342	

Yr 2 FL	A MIM U310 Intro to Industrl Engineering	4.0 SH
Yr 2 FL	A MIM U412 Engineering Prob and Stats	4.0 SH
Yr 2 FL	C PHY U155 Physics for Engineering 2	4.0 SH

	Coreq(s): C PHY U156 C PHY U157	
Yr 2 FL	C PHY U156 Lab for PHY U155	1.0 SH

	Coreq(s): C PHY U155 C PHY U157	
Yr 2 FL	C PHY U157 Interact Learn for PHY U155	0.0 SH
	Coreq(s): C PHY U155 C PHY U156	
	Semester Subtotal	17.0 SH

Yr 2 SP	C MTH U343 Diff Eq and Lin Alg for Engr Coreq(s): C MTH U344	4.0 SH
Yr 2 SP	A MIM U420 Computers & Information System	4.0 SH
Yr 2 SP	A MIM U510 Digital Simulation Techniques	4.0 SH
Yr 2 SP	A MIM U516 Quality Assurance	4.0 SH
Yr 2 SP	A MIM U300 Intro to Engr Coop Education	1.0 SH
	Semester Subtotal	17.0 SH
Yr 2 S1	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 2 S2	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 FL	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 SP	A MIM U425 Engineering Database Systems	4.0 SH
Yr 3 SP	C ENG U302 Advanced Writing in Tech Prof	4.0 SH
Yr 3 SP	A MIM U515 Operations Research	4.0 SH
Yr 3 SP	MIM Undergraduate Elective	4.0 SH
	Semester Subtotal	16.0 SH
Yr 3 S1	Engrg General Elective	4.0 SH
Yr 3 S1	NU Core course or Elective	4.0 SH
	Semester Subtotal	8.0 SH
Yr 3 S2	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 FL	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 SP	A MIM U512 Engineering Economy	4.0 SH
Yr 4 SP	A MIM U500 Prof Issues in Engineering	1.0 SH
Yr 4 SP	A MIM U525 Logistics & SuppChain Managemt	4.0 SH
Yr 4 SP	A MIM U530 Manuf Systems & Techniques Coreq(s): A MIM U531	4.0 SH
Yr 4 SP	A MIM U531 Lab for MIM U530 Coreq(s): A MIM U530	1.0 SH
Yr 4 SP	Engrg General Elective	4.0 SH
	Semester Subtotal	18.0 SH
Yr 4 S1	A MIM U701 Capstone Design 1	1.0 SH
Yr 4 S1	Engrg General Elective	4.0 SH
Yr 4 S1	Engrg General Elective	4.0 SH
	Semester Subtotal	9.0 SH
Yr 4 S2	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 5 FL	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 5 SP	A MIM U702 Capstone Design 2	5.0 SH
Yr 5 SP	A MIM U522 Human Machine Systems Coreq(s): A MIM U523	4.0 SH
Yr 5 SP	A MIM U523 Lab for MIM U522 Coreq(s): A MIM U522	1.0 SH
Yr 5 SP	A MIM U520 Stochastic Modeling	4.0 SH
Yr 5 SP	Engrg General Elective	4.0 SH
	Semester Subtotal	18.0 SH

MDS 050 BSIE Industrial Engineering Div B

Yr 1 FL	C MTH U241 Calculus 1 for Sci/Engr	4.0 SH
Yr 1 FL	C CHM U151 General Chem for Engineers Coreq(s): C CHM U152 C CHM U153	4.0 SH
Yr 1 FL	C CHM U153 Recitation for CHM U151 Coreq(s): C CHM U151 C CHM U152	0.0 SH
Yr 1 FL	A GE U110 Engineering Design	4.0 SH
Yr 1 FL	A GE U100 Intro to the Study of Engr	1.0 SH
Yr 1 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 SP	A GE U111 Engr Prob Solv and Comp	4.0 SH
Yr 1 SP	C MTH U242 Calculus 2 for Sci/Engr	4.0 SH
Yr 1 SP	C PHY U151 Physics for Engineering 1 Coreq(s): C PHY U152 C PHY U153	4.0 SH
Yr 1 SP	C PHY U152 Lab for PHY U151 Coreq(s): C PHY U151 C PHY U153	1.0 SH
Yr 1 SP	C PHY U153 Interact Learn for PHY U151 Coreq(s): C PHY U151 C PHY U152	0.0 SH
Yr 1 SP	C ENG U111 College Writing	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 S1	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 1 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 2 FL	C MTH U341 Calculus 3 for Sci/Engr Coreq(s): C MTH U342	4.0 SH
Yr 2 FL	A MIM U310 Intro to Industrl Engineering	4.0 SH
Yr 2 FL	A MIM U412 Engineering Prob and Stats	4.0 SH
Yr 2 FL	C PHY U155 Physics for Engineering 2 Coreq(s): C PHY U156 C PHY U157	4.0 SH
Yr 2 FL	C PHY U156 Lab for PHY U155 Coreq(s): C PHY U155 C PHY U157	1.0 SH
Yr 2 FL	C PHY U157 Interact Learn for PHY U155 Coreq(s): C PHY U155 C PHY U156	0.0 SH
Yr 2 FL	A MIM U300 Intro to Engr Coop Education	1.0 SH
	Semester Subtotal	18.0 SH
Yr 2 SP	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 2 S1	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 2 S2	NU Core course or Elective	4.0 SH
Yr 2 S2	Engrg General Elective	4.0 SH
	Semester Subtotal	8.0 SH
Yr 3 FL	A MIM U510 Digital Simulation Techniques	4.0 SH
Yr 3 FL	A MIM U516 Quality Assurance	4.0 SH
Yr 3 FL	A MIM U420 Computers & Information System	4.0 SH
Yr 3 FL	C MTH U343 Diff Eq and Lin Alg for Engr Coreq(s): C MTH U344	4.0 SH
	Semester Subtotal	16.0 SH
Yr 3 SP	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 S1	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH

Yr 3 S2	C ENG U302 Advanced Writing in Tech Prof	4.0 SH
Yr 3 S2	Engrg General Elective	4.0 SH
	Semester Subtotal	8.0 SH
Yr 4 FL	A MIM U425 Engineering Database Systems	4.0 SH
Yr 4 FL	A MIM U500 Prof Issues in Engineering	1.0 SH
Yr 4 FL	A MIM U515 Operations Research	4.0 SH
Yr 4 FL	A MIM U530 Manuf Systems & Techniques	4.0 SH
	Coreq(s): A MIM U531	
Yr 4 FL	A MIM U531 Lab for MIM U530	1.0 SH
	Coreq(s): A MIM U530	
Yr 4 FL	MIM Undergraduate Elective	4.0 SH
	Semester Subtotal	18.0 SH
Yr 4 SP	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 S1	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 5 FL	A MIM U512 Engineering Economy	4.0 SH
Yr 5 FL	A MIM U525 Logistics & SuppChain Managemt	4.0 SH
Yr 5 FL	A MIM U701 Capstone Design 1	1.0 SH
Yr 5 FL	Engrg General Elective	4.0 SH
Yr 5 FL	MIM Undergraduate Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 5 SP	A MIM U702 Capstone Design 2	5.0 SH
Yr 5 SP	A MIM U522 Human Machine Systems	4.0 SH
	Coreq(s): A MIM U523	
Yr 5 SP	A MIM U523 Lab for MIM U522	1.0 SH
	Coreq(s): A MIM U522	
Yr 5 SP	A MIM U520 Stochastic Modeling	4.0 SH
Yr 5 SP	Engrg General Elective	4.0 SH
	Semester Subtotal	18.0 SH

**MDS 020 BSME Mechanical Engineering
4 Year, 1 Co-op**

Yr 1 FL	A GE U100 Intro to the Study of Engr	1.0 SH
Yr 1 FL	A GE U110 Engineering Design	4.0 SH
Yr 1 FL	C MTH U241 Calculus 1 for Sci/Engr	4.0 SH
Yr 1 FL	C CHM U151 General Chem for Engineers	4.0 SH
	Coreq(s): C CHM U152 C CHM U153	
Yr 1 FL	C CHM U153 Recitation for CHM U151	0.0 SH
	Coreq(s): C CHM U151 C CHM U152	
Yr 1 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 SP	A GE U111 Engr Prob Solv and Comp	4.0 SH
Yr 1 SP	C MTH U242 Calculus 2 for Sci/Engr	4.0 SH
Yr 1 SP	C PHY U151 Physics for Engineering 1	4.0 SH
	Coreq(s): C PHY U152 C PHY U153	
Yr 1 SP	C PHY U152 Lab for PHY U151	1.0 SH
	Coreq(s): C PHY U151 C PHY U153	
Yr 1 SP	C ENG U111 College Writing	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 S1	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 1 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 2 FL	C MTH U341 Calculus 3 for Sci/Engr	4.0 SH
	Coreq(s): C MTH U342	
Yr 2 FL	A MIM U350 Engineering Mechanics & Design	4.0 SH
Yr 2 FL	C PHY U155 Physics for Engineering 2	4.0 SH
	Coreq(s): C PHY U156 C PHY U157	
Yr 2 FL	C PHY U156 Lab for PHY U155	1.0 SH
	Coreq(s): C PHY U155 C PHY U157	
Yr 2 FL	C BIO U111 General Biology 1	4.0 SH
	Coreq(s): C BIO U112	
Yr 2 FL	C BIO U112 Lab for BIO U111	1.0 SH
	Coreq(s): C BIO U111	
	Semester Subtotal	18.0 SH
Yr 2 SP	C MTH U343 Diff Eq and Lin Alg for Engr	4.0 SH
	Coreq(s): C MTH U344	
Yr 2 SP	A MIM U340 Intro to Material Science	4.0 SH
	Coreq(s): A MIM U341	
Yr 2 SP	A MIM U341 Lab for MIM U340	1.0 SH
	Coreq(s): A MIM U340	
Yr 2 SP	A MIM U355 Mechanics of Materials	4.0 SH
	Coreq(s): A MIM U356	
Yr 2 SP	A MIM U356 Lab for MIM U355	1.0 SH
	Coreq(s): A MIM U355	
Yr 2 SP	A MIM U380 Thermodynamics	4.0 SH
Yr 2 SP	A MIM U300 Intro to Engr Coop Education	1.0 SH
	Semester Subtotal	19.0 SH
Yr 2 S1	A MIM U475 Fluid Mechanics	4.0 SH
Yr 2 S1	NU Core course or Elective	4.0 SH
	Semester Subtotal	8.0 SH
Yr 2 S2	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 FL	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH

Yr 3 SP	A MIM U508 Mech Engr Computation & Design	4.0 SH
Yr 3 SP	A MIM U570 Thermal System Anlys & Design	4.0 SH
Yr 3 SP	A ECE U210 Electrical Engineering	4.0 SH
	Coreq(s): A ECE U211	
Yr 3 SP	A ECE U211 Lab for ECE U210	1.0 SH
	Coreq(s): A ECE U210	
Yr 3 SP	A MIM U455 Dynamics and Vibrations	4.0 SH
	Coreq(s): A MIM U456	
Yr 3 SP	A MIM U456 Lab for MIM U455	1.0 SH
	Coreq(s): A MIM U455	
	Semester Subtotal	18.0 SH
Yr 3 S1	A MIM U550 Mechanical Engineering Design	4.0 SH
Yr 3 S1	C ENG U302 Advanced Writing in Tech Prof	4.0 SH
Yr 3 S1	A MIM U701 Capstone Design 1	1.0 SH
	Semester Subtotal	9.0 SH
Yr 3 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 FL	A MIM U505 Msrmt & Anlys w/Thrm Sci App	4.0 SH
	Coreq(s): A MIM U506	
Yr 4 FL	A MIM U506 Lab for MIM U505	1.0 SH
	Coreq(s): A MIM U505	
Yr 4 FL	A MIM U500 Prof Issues in Engineering	1.0 SH
Yr 4 FL	A MIM U555 System Analysis and Control	4.0 SH
Yr 4 FL	NU Core Course or Elective	4.0 SH
Yr 4 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	18.0 SH
Yr 4 SP	A MIM U702 Capstone Design 2	5.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH
Yr 4 SP	MIM Undergraduate Elective	4.0 SH
	Semester Subtotal	17.0 SH

MDS 020 BSME Mechanical Engineering Div A

Yr 1 FL	C MTH U241 Calculus 1 for Sci/Engr	4.0 SH
Yr 1 FL	C CHM U151 General Chem for Engineers	4.0 SH
	Coreq(s): C CHM U152 C CHM U153	
Yr 1 FL	C CHM U153 Recitation for CHM U151	0.0 SH
	Coreq(s): C CHM U151 C CHM U152	
Yr 1 FL	A GE U110 Engineering Design	4.0 SH
Yr 1 FL	A GE U100 Intro to the Study of Engr	1.0 SH
Yr 1 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 SP	A GE U111 Engr Prob Solv and Comp	4.0 SH
Yr 1 SP	C MTH U242 Calculus 2 for Sci/Engr	4.0 SH
Yr 1 SP	C PHY U151 Physics for Engineering 1	4.0 SH
	Coreq(s): C PHY U152 C PHY U153	
Yr 1 SP	C PHY U152 Lab for PHY U151	1.0 SH
	Coreq(s): C PHY U151 C PHY U153	
Yr 1 SP	C PHY U153 Interact Learn for PHY U151	0.0 SH
	Coreq(s): C PHY U151 C PHY U152	
Yr 1 SP	C ENG U111 College Writing	4.0 SH
	Semester Subtotal	17.0 SH
Yr 1 S1	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 1 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH

Yr 2 FL	C BIO U111 General Biology 1 Coreq(s): C BIO U112	4.0 SH	Yr 4 SP	A MIM U570 Thermal System Anlys & Design	4.0 SH
Yr 2 FL	C BIO U112 Lab for BIO U111 Coreq(s): C BIO U111	1.0 SH	Yr 4 SP	A MIM U505 Msrmt & Anlys w/Thrm Sci App Coreq(s): A MIM U506	4.0 SH
Yr 2 FL	A MIM U350 Engineering Mechanics & Design	4.0 SH	Yr 4 SP	A MIM U506 Lab for MIM U505 Coreq(s): A MIM U505	1.0 SH
Yr 2 FL	C PHY U155 Physics for Engineering 2 Coreq(s): C PHY U156 C PHY U157	4.0 SH	Yr 4 SP	A MIM U500 Prof Issues in Engineering	1.0 SH
Yr 2 FL	C PHY U156 Lab for PHY U155 Coreq(s): C PHY U155 C PHY U157	1.0 SH	Yr 4 SP	A MIM U555 System Analysis and Control	4.0 SH
Yr 2 FL	C PHY U157 Interact Learn for PHY U155 Coreq(s): C PHY U155 C PHY U156	0.0 SH	Yr 4 SP	Engr General Elective	4.0 SH
Yr 2 FL	C MTH U341 Calculus 3 for Sci/Engr Coreq(s): C MTH U342	4.0 SH	Yr 4 SP	Semester Subtotal	18.0 SH
	Semester Subtotal	18.0 SH	Yr 4 S1	A MIM U550 Mechanical Engineering Design	4.0 SH
Yr 2 SP	C MTH U343 Diff Eq and Lin Alg for Engr Coreq(s): C MTH U344	4.0 SH	Yr 4 S1	A MIM U701 Capstone Design 1	1.0 SH
Yr 2 SP	A MIM U340 Intro to Material Science Coreq(s): A MIM U341	4.0 SH	Yr 4 S1	Engr General Elective	4.0 SH
Yr 2 SP	A MIM U341 Lab for MIM U340 Coreq(s): A MIM U340	1.0 SH	Yr 4 S1	Semester Subtotal	9.0 SH
Yr 2 SP	A MIM U355 Mechanics of Materials Coreq(s): A MIM U356	4.0 SH	Yr 4 S2	CO-OP	0.0 SH
Yr 2 SP	A MIM U356 Lab for MIM U355 Coreq(s): A MIM U355	1.0 SH	Yr 4 S2	Semester Subtotal	0.0 SH
Yr 2 SP	A MIM U380 Thermodynamics	4.0 SH	Yr 5 FL	CO-OP	0.0 SH
Yr 2 SP	A MIM U300 Intro to Engr Coop Education	1.0 SH	Yr 5 FL	Semester Subtotal	0.0 SH
	Semester Subtotal	19.0 SH	Yr 5 SP	A MIM U702 Capstone Design 2	5.0 SH
Yr 2 S1	VACATION	0.0 SH	Yr 5 SP	Engr General Elective	4.0 SH
	Semester Subtotal	0.0 SH	Yr 5 SP	Engr General Elective	4.0 SH
Yr 2 S2	CO-OP	0.0 SH	Yr 5 SP	ME Technical Elective	4.0 SH
	Semester Subtotal	0.0 SH	Yr 5 SP	Semester Subtotal	17.0 SH
Yr 3 FL	CO-OP	0.0 SH	<hr/>		
	Semester Subtotal	0.0 SH	MDS 020 BSME Mechanical Engineering Div N		
Yr 3 SP	A MIM U508 Mech Engr Computation & Design	4.0 SH	Yr 1 FL	C MTH U241 Calculus 1 for Sci/Engr	4.0 SH
Yr 3 SP	C ENG U302 Advanced Writing in Tech Prof	4.0 SH	Yr 1 FL	C CHM U151 General Chem for Engineers Coreq(s): C CHM U152 C CHM U153	4.0 SH
Yr 3 SP	A ECE U210 Electrical Engineering Coreq(s): A ECE U211	4.0 SH	Yr 1 FL	C CHM U153 Recitation for CHM U151 Coreq(s): C CHM U151 C CHM U152	0.0 SH
Yr 3 SP	A ECE U211 Lab for ECE U210 Coreq(s): A ECE U210	1.0 SH	Yr 1 FL	A GE U110 Engineering Design	4.0 SH
Yr 3 SP	A MIM U455 Dynamics and Vibrations Coreq(s): A MIM U456	4.0 SH	Yr 1 FL	A GE U100 Intro to the Study of Engr	1.0 SH
Yr 3 SP	A MIM U456 Lab for MIM U455 Coreq(s): A MIM U455	1.0 SH	Yr 1 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	18.0 SH	Yr 1 FL	Semester Subtotal	17.0 SH
Yr 3 S1	A MIM U475 Fluid Mechanics	4.0 SH	Yr 1 SP	A GE U111 Engr Prob Solv and Comp	4.0 SH
Yr 3 S1	NU Core course or Elective	4.0 SH	Yr 1 SP	C MTH U242 Calculus 2 for Sci/Engr	4.0 SH
	Semester Subtotal	8.0 SH	Yr 1 SP	C PHY U151 Physics for Engineering 1 Coreq(s): C PHY U152 C PHY U153	4.0 SH
Yr 3 S2	CO-OP	0.0 SH	Yr 1 SP	C PHY U152 Lab for PHY U151 Coreq(s): C PHY U151 C PHY U153	1.0 SH
	Semester Subtotal	0.0 SH	Yr 1 SP	C PHY U153 Interact Learn for PHY U151 Coreq(s): C PHY U151 C PHY U152	0.0 SH
Yr 4 FL	CO-OP	0.0 SH	Yr 1 SP	C ENG U111 College Writing	4.0 SH
	Semester Subtotal	0.0 SH	Yr 1 SP	Semester Subtotal	17.0 SH
			Yr 1 S1	VACATION	0.0 SH
			Yr 1 S1	Semester Subtotal	0.0 SH
			Yr 1 S2	VACATION	0.0 SH
			Yr 1 S2	Semester Subtotal	0.0 SH

Yr 2 FL	C BIO U111 General Biology 1 Coreq(s): C BIO U112	4.0 SH	Yr 4 S2	A MIM U550 Mechanical Engineering Design	4.0 SH
Yr 2 FL	C BIO U112 Lab for BIO U111 Coreq(s): C BIO U111	1.0 SH	Yr 4 S2	A MIM U701 Capstone Design 1	1.0 SH
Yr 2 FL	A MIM U350 Engineering Mechanics & Design	4.0 SH	Yr 4 S2	NU Core course or Elective	4.0 SH
Yr 2 FL	C PHY U155 Physics for Engineering 2 Coreq(s): C PHY U156 C PHY U157	4.0 SH		Semester Subtotal	9.0 SH
Yr 2 FL	C PHY U156 Lab for PHY U155 Coreq(s): C PHY U155 C PHY U157	1.0 SH	Yr 5 FL	A MIM U555 System Analysis and Control	4.0 SH
Yr 2 FL	C PHY U157 Interact Learn for PHY U155 Coreq(s): C PHY U155 C PHY U156	0.0 SH	Yr 5 FL	A MIM U500 Prof Issues in Engineering	1.0 SH
Yr 2 FL	A MIM U300 Intro to Engr Coop Education	1.0 SH	Yr 5 FL	A ECE U210 Electrical Engineering Coreq(s): A ECE U211	4.0 SH
Yr 2 FL	C MTH U341 Calculus 3 for Sci/Engr Coreq(s): C MTH U342	4.0 SH	Yr 5 FL	A ECE U211 Lab for ECE U210 Coreq(s): A ECE U210	1.0 SH
	Semester Subtotal	19.0 SH	Yr 5 FL	A MIM U702 Capstone Design 2	5.0 SH
Yr 2 SP	CO-OP	0.0 SH	Yr 5 FL	Engrg General Elective	4.0 SH
	Semester Subtotal	0.0 SH		Semester Subtotal	19.0 SH
Yr 2 S1	CO-OP	0.0 SH	Yr 5 SP	MIM Undergraduate Elective	4.0 SH
	Semester Subtotal	0.0 SH	Yr 5 SP	Engrg General Elective	4.0 SH
Yr 2 S2	VACATION	0.0 SH	Yr 5 SP	Engrg General Elective	4.0 SH
	Semester Subtotal	0.0 SH	Yr 5 SP	Engrg General Elective	4.0 SH
Yr 3 FL	A MIM U340 Intro to Material Science Coreq(s): A MIM U341	4.0 SH		Semester Subtotal	16.0 SH
Yr 3 FL	A MIM U341 Lab for MIM U340 Coreq(s): A MIM U340	1.0 SH			
Yr 3 FL	A MIM U355 Mechanics of Materials Coreq(s): A MIM U356	4.0 SH			
Yr 3 FL	A MIM U356 Lab for MIM U355 Coreq(s): A MIM U355	1.0 SH			
Yr 3 FL	C MTH U343 Diff Eq and Lin Alg for Engr Coreq(s): C MTH U344	4.0 SH			
Yr 3 FL	A MIM U380 Thermodynamics	4.0 SH			
	Semester Subtotal	18.0 SH			
Yr 3 SP	CO-OP	0.0 SH			
	Semester Subtotal	0.0 SH			
Yr 3 S1	CO-OP	0.0 SH			
	Semester Subtotal	0.0 SH			
Yr 3 S2	C ENG U302 Advanced Writing in Tech Prof	4.0 SH			
Yr 3 S2	A MIM U475 Fluid Mechanics	4.0 SH			
	Semester Subtotal	8.0 SH			
Yr 4 FL	A MIM U505 Msrmt & Anlys w/Thrm Sci App Coreq(s): A MIM U506	4.0 SH			
Yr 4 FL	A MIM U506 Lab for MIM U505 Coreq(s): A MIM U505	1.0 SH			
Yr 4 FL	A MIM U455 Dynamics and Vibrations Coreq(s): A MIM U456	4.0 SH			
Yr 4 FL	A MIM U456 Lab for MIM U455 Coreq(s): A MIM U455	1.0 SH			
Yr 4 FL	A MIM U570 Thermal System Anlys & Design	4.0 SH			
Yr 4 FL	A MIM U508 Mech Engr Computation & Design	4.0 SH			
	Semester Subtotal	18.0 SH			
Yr 4 SP	CO-OP	0.0 SH			
	Semester Subtotal	0.0 SH			
Yr 4 S1	CO-OP	0.0 SH			
	Semester Subtotal	0.0 SH			