

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