UAEU كلية الهندسة College of Engineering

جامعة الإمارات العربية المتحدة United Arab Emirates University

Bachelor of Science in Mechanical Engineering Model Study Plan (2022-2023 Cohort onwards)

For Students Admitted to the University from the Fall Semester
Total Degree Credit hours: 147

Semester	Course Code	Course Title	CH	Course type
Year 1 – 1 (Fall)	MATH1110/130	Calculus I for Engineering	3	Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)
	PHYS105	General Physics I	3	College Requirement
	PHYS135	General Physics Lab I	1	College Requirement
	ESPU107	Introduction to Academic English For Engineering	3	Gen Ed Course (Cluster 1: Area 2: English Communication)
	CHEM111	General Chemistry I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)
	CHEM175	Chemistry Lab I for Engineering	1	College Requirement
			14	
Year 2 – 3 (Fall)	MATH2220/145	Linear Algebra for Engineering	3	College Requirement
	MATH2210/270	Differential Equations for Engineering	3	College Requirement
	GENG220	Engineering Thermodynamics	3	College Requirement
	CIVL240	Statics	3	Specialization
	MECH210	Measurement and Instrumentation lab	1	Specialization
	MECH240	Introduction to Computing Lab in ME	1	Specialization
			14	
Year 3 – 5 (Fall)	STAT210	Probability and Statistics	3	College Requirement
	MECH311	Applied Thermodynamics	3	Specialization
	MECH390	Engineering Materials	3	College Requirement
	MECH407	Machine Design I	3	Specialization
	MECH411	Heat Transfer	3	Specialization
			15	
Year 4 – 7 (Fall)	GENG315	Engineering Economics	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
	MECH409	Dynamic Systems & Control	3	Specialization
	MECH417	Kinematics Design of Machinery	3	Specialization
	MECH433	Introduction to Computer Aided Manufacturing	2	Specialization
	MECH440	Design and Manufacturing Lab	1	Specialization
	GEIE222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
			15	
Year 5 – 9 (Fall)	MECH585	Design and Critical Thinking in Mechanical Engineering	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
	MECH450	Dynamic Systems and Control Lab	1	Specialization
	ISLM100/ISLM101	Islamic Culture/Biography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)
	GEIT112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
	HSS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
	MECH513	Air Conditioning Systems	3	Major Elective
			16	

Semester	Course Code	Course Title	CH	Course type
2 (Spring)	MATH1120/135	Calculus II for Engineering	3	College Requirement
	PHYS110	General Physics II	3	College Requirement
	PHYS140	General Physics Lab II	1	College Requirement
	GENG230	Computer Programming	3	College Requirement
	GENG215	Engineering Ethics	2	College Requirement
	MECH200	Introduction to Engineering Drawing and Workshop	1	Specialization
			14	
4 (Spring)	MECH305	Mechanics of Materials	3	Specialization
	MECH315	Geometric Modeling	2	Specialization
	MECH340	Fluid Mechanics	3	Specialization
	MECH348	Fluid Mechanics Lab	1	Specialization
	ELEC372	Electro-Mechanical Devices	2	Specialization
	MECH384	Mathematics for Mech. Eng.	3	Specialization
			14	
6 (Spring)	MECH306	Manufacturing Processes	3	Specialization
	MECH310	Dynamics	3	Specialization
	MECH426	Thermofluid System Design & Analysis	3	Specialization
	MECH412	Machine Design II	3	Specialization
	MECH350	Introduction to Mechatronics	3	Specialization
	MECH430	Thermal Engineering Lab	1	Specialization
			16	
8 (Spring)	MECH495	Industrial Training	15	Internship
			15	
10 (Spring)	MECH590	Capstone Engineering Design Project	3	Specialization
	GESU121	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)
	Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)
	MECH540	Selected Topics in Design & Manufacturing	3	Major Elective
	MECH532	Design of Mechatronics Systems	3	Major Elective
			15	

Bachelor of Science in Mechanical Engineering Model Study Plan (2022-2023 Cohort onwards)

For Students Admitted to the University from the Spring Semester
Total Degree Credit hours: 147

Semester	Course Code	Course Title	CH	Course type
Year 1 – 1 (Spring)	MATH1110/130	Calculus I for Engineering	3	Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)
	PHYS105	General Physics I	3	College Requirement
	PHYS135	General Physics Lab I	1	College Requirement
	ESPU107	Introduction to Academic English For Engineering	3	Gen Ed Course (Cluster 1: Area 2: English Communication)
	CHEM111	General Chemistry I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)
	CHEM175	Chemistry Lab I for Engineering	1	College Requirement
			14	
Year 2 – 3 (Spring)	MATH2220/145	Linear Algebra for Engineering	3	College Requirement
	MATH2210/270	Differential Equations for Engineering	3	College Requirement
	GENG220	Engineering Thermodynamics	3	College Requirement
	CIVL240	Statics	3	Specialization
	MECH210	Measurement and Instrumentation lab	1	Specialization
	MECH240	Introduction to Computing Lab in ME	1	Specialization
			14	
Year 3 – 5 (Spring)	STAT210	Probability and Statistics	3	College Requirement
	MECH306	Manufacturing Processes	3	Specialization
	MECH310	Dynamics	3	Specialization
	MECH315	Geometric Modeling	2	Specialization
	ELEC372	Electro-Mechanical Devices	2	Specialization
	MECH384	Mathematics for Mech. Eng.	3	Specialization
			16	
Year 4 – 7 (Spring)	GENG315	Engineering Economics	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
	MECH409	Dynamic Systems & Control	3	Specialization
	MECH412	Machine Design II	3	Specialization
	MECH426	Thermofluid System Design & Analysis	3	Specialization
	MECH430	Thermal Engineering Lab	1	Specialization
	MECH440	Design and Manufacturing Lab	1	Specialization
			16	
Year 5 – 9 (Spring)	MECH585	Design and Critical Thinking in Mechanical Engineering	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
	MECH450	Dynamic Systems and Control Lab	1	Specialization
	ISLM100/ISLM101	Islamic Culture/Biography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)
	MECH516	Energy Management	3	Major Elective
	GEIT112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
	HSS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
			16	

Semester	Course Code	Course Title	CH	Course type
2 (Fall)	MATH1120/135	Calculus II for Engineering	3	College Requirement
	PHYS110	General Physics II	3	College Requirement
	PHYS140	General Physics Lab II	1	College Requirement
	GENG230	Computer Programming	3	College Requirement
	GENG215	Engineering Ethics	2	College Requirement
	MECH200	Introduction to Engineering Drawing and Workshop	1	Specialization
			14	
4 (Fall)	MECH305	Mechanics of Materials	3	Specialization
	MECH311	Applied Thermodynamics	3	Specialization
	MECH340	Fluid Mechanics	3	Specialization
	MECH348	Fluid Mechanics Lab	1	Specialization
	MECH390	Engineering Materials	3	College Requirement
	GEIE222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
			16	
6 (Fall)	MECH350	Introduction to Mechatronics	3	Specialization
	MECH411	Heat Transfer	3	Specialization
	MECH407	Machine Design I	3	Specialization
	MECH417	Kinematics Design of Machinery	3	Specialization
	MECH433	Introduction to Computer Aided Manufacturing	2	Specialization
			14	
8 (Fall)	MECH495	Industrial Training	15	Internship
			15	
10 (Fall)	MECH590	Capstone Engineering Design Project	3	Specialization
	GESU121	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)
	Elective	Student choice	3	General Education Choice
	MECH513	Air Conditioning Systems	3	Major Elective
	MECH545	Maintenance Engineering	3	Major Elective
			15	

Bachelor of Science in Mechanical Engineering Model Study Plan (2023-2024 Cohort onwards)

For Students Admitted to the University from the Fall Semester
Total Degree Credit hours: 132

Semester	Course Code	Course Title	CH	Course type
Year 1 – 1 (Fall)	MATH130	Calculus I for Engineering	3	Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)
	PHYS105	General Physics I	3	College Requirement
	PHYS135	General Physics Lab I	1	College Requirement
	ESPU107	Introduction to Academic English For Engineering	3	Gen Ed Course (Cluster 1: Area 2: English Communication)
	CHEM111	General Chemistry I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)
	CHEM175	Chemistry Lab I for Engineering	1	College Requirement
	HSS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
			18	
Year 2 – 3 (Fall)	MATH140	Linear Algebra I	3	College Requirement
	MATH275	Ordinary Differential Equations	3	College Requirement
	GENG220	Engineering Thermodynamics	3	College Requirement
	CIVL240	Statics	3	Specialization
	MECH210	Measurement and Instrumentation lab	1	Specialization
	MECH240	Introduction to Computing Lab in ME	1	Specialization
	GEIE222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
			17	
Summer	MECH485	Intrenship I	1	Internship
			1	
Year 3 – 5 (Fall)	STAT210	Probability and Statistics	3	College Requirement
	MECH311	Applied Thermodynamics	3	Specialization
	MECH390	Engineering Materials	3	College Requirement
	MECH407	Machine Design I	3	Specialization
	MECH411	Heat Transfer	3	Specialization
	GENG315	Engineering Economics	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
			18	
Summer	MECH490	Intrenship II	1	Internship
			1	
Year 4 – 7 (Fall)	MECH585	Design and Critical Thinking in Mechanical Engineering	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
	MECH409	Dynamic Systems & Control	3	Specialization
	MECH417	Kinematics Design of Machinery	3	Specialization
	MECH433	Introduction to Computer Aided Manufacturing	3	Specialization
	MECH430	Thermal Engineering Lab	1	Specialization
	MECH440	Design and Manufacturing Lab	1	Specialization
			14	

Semester	Course Code	Course Title	CH	Course type
2 (Spring)	MATH135	Calculus II for Engineering	3	College Requirement
	PHYS110	General Physics II	3	College Requirement
	PHYS140	General Physics Lab II	1	College Requirement
	GENG230	Computer Programming	3	College Requirement
	GENG215	Engineering Ethics	2	College Requirement
	MECH200	Introduction to Engineering Drawing and Workshop	1	Specialization
	ISLM101	Islamic Culture/Biography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)
			16	
4 (Spring)	MECH305	Mechanics of Materials	3	Specialization
	MECH315	Geometric Modeling	2	Specialization
	MECH340	Fluid Mechanics	3	Specialization
	MECH348	Fluid Mechanics Lab	1	Specialization
	ELEC372	Electro-Mechanical Devices	2	Specialization
	MECH384	Mathematics for Mech. Eng.	3	Specialization
	GESU121	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)
			17	
6 (Spring)	MECH306	Manufacturing Processes	3	Specialization
	MECH310	Dynamics	3	Specialization
	MECH426	Thermofluid System Design & Analysis	3	Specialization
	MECH412	Machine Design II	3	Specialization
	MECH350	Introduction to Mechatronics	3	Specialization
	GEIT112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
			18	
8 (Spring)	MECH590	Capstone Engineering Design Project	3	Specialization
	MECH450	Dynamic Systems and Control Lab	1	Specialization
	Elective	Student choice	3	Major Elective
	Elective	Student choice	3	Major Elective
	Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)
			13	

Bachelor of Science in Mechanical Engineering Model Study Plan (2023-2024 Cohort onwards)

For Students Admitted to the University from the Spring Semester
Total Degree Credit hours: 132

Semester	Course Code	Course Title	CH	Course type
Year 1 – 1 (Spring)	MATH130	Calculus I for Engineering	3	Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)
	PHYS105	General Physics I	3	College Requirement
	PHYS135	General Physics Lab I	1	College Requirement
	ESPU107	Introduction to Academic English For Engineering	3	Gen Ed Course (Cluster 1: Area 2: English Communication)
	CHEM111	General Chemistry I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)
	CHEM175	Chemistry Lab I for Engineering	1	College Requirement
	HSS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
			17	
Year 2 – 3 (Spring)	MATH140	Linear Algebra I	3	College Requirement
	MATH275	Ordinary Differential Equations	3	College Requirement
	GENG220	Engineering Thermodynamics	3	College Requirement
	CIVL240	Statics	3	Specialization
	MECH210	Measurement and Instrumentation lab	1	Specialization
	MECH240	Introduction to Computing Lab in ME	1	Specialization
	GEIE222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
			17	
Year 3 – 5 (Spring)	STAT210	Probability and Statistics	3	College Requirement
	MECH306	Manufacturing Processes	3	Specialization
	MECH310	Dynamics	3	Specialization
	MECH315	Geometric Modeling	2	Specialization
	ELEC372	Electro-Mechanical Devices	2	Specialization
	MECH384	Mathematics for Mech. Eng.	3	Specialization
	MECH348	Fluid Mechanics Lab	1	Specialization
			17	
Year 4 – 6 (Fall)	MECH350	Introduction to Mechatronics	3	Specialization
	MECH411	Heat Transfer	3	Specialization
	MECH407	Machine Design I	3	Specialization
	MECH417	Kinematics Design of Machinery	3	Specialization
	MECH433	Introduction to Computer Aided Manufacturing	3	Specialization
			15	
Summer	MECH490	Intrenship II	1	Internship
			1	
Year 5 – 8 (Fall)	MECH590	Capstone Engineering Design Project	3	Specialization
	MECH450	Dynamic Systems and Control Lab	1	Specialization
	MECH440	Design and Manufacturing Lab	1	Specialization
	Elective	Student choice	3	Major Elective
	Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)
	GEIT112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
			14	

Semester	Course Code	Course Title	CH	Course type
2 (Fall)	MATH135	Calculus II for Engineering	3	College Requirement
	PHYS110	General Physics II	3	College Requirement
	PHYS140	General Physics Lab II	1	College Requirement
	GENG230	Computer Programming	3	College Requirement
	GENG215	Engineering Ethics	2	College Requirement
	MECH200	Introduction to Engineering Drawing and Workshop	1	Specialization
	ISLM101	Biography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)
			16	
4 (Fall)	MECH305	Mechanics of Materials	3	Specialization
	MECH311	Applied Thermodynamics	3	Specialization
	MECH340	Fluid Mechanics	3	Specialization
	MECH390	Engineering Materials	3	College Requirement
	GENG315	Engineering Economics	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
	GESU121	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)
			18	
Summer	MECH485	Intrenship I	1	Internship
7 (Spring)	MECH585	Design and Critical Thinking in Mechanical Engineering	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
	MECH409	Dynamic Systems & Control	3	Specialization
	MECH412	Machine Design II	3	Specialization
	MECH426	Thermofluid System Design & Analysis	3	Specialization
	MECH430	Thermal Engineering Lab	1	Specialization
	Elective	Student choice	3	Major Elective
			16	

UAEU كلية الهندسة College of Engineering

جامعة الإمارات العربية المتحدة United Arab Emirates University

Bachelor of Science in Mechanical Engineering Model Study Plan (2025-2026 Cohort onwards)

For Students Admitted to the University from the Fall Semester

Total Degree Credit hours: 132

	Semester	Course Code	Course Title	CH	Course type
Year 1	1 (Fall)	MATH130	Calculus I for Engineering	3	Specialization
		PHYS105	General Physics I	3	College Requirement
		PHYS135	General Physics Lab I	1	College Requirement
		GEAE101	Academic English for Humanities and STEM	3	Gen. Ed. Theme 2: Academic Language Proficiency
		CHEM111	General Chemistry I	3	College Requirement
		CHEM175	Chemistry Lab I for Engineering	1	College Requirement
		GEIM110	Contemporary Emirati Studies	3	Gen. Ed. Theme 1: UAE National Identity
				17	
Year 2	3 (Fall)	Elective	Student choice	3	Gen. Ed. Theme 7 or 8 or 9 or 10
		MATH275	Ordinary Differential Equations	3	College Requirement
		GENG220	Engineering Thermodynamics	3	College Requirement
		CIVL240	Statics	3	Specialization
		MECH210	Measurement and Instrumentation lab	1	Specialization
		MECH240	Introduction to Computing Lab in ME	1	Specialization
		GEIE222	Fundamentals of Innovation and Entrepreneurship	3	Gen. Ed. Theme 4: Entrepreneurship
				17	
	Summer	MECH485	Intrenship I	1	Internship
				1	
Year 3	5 (Fall)	STAT210	Probability and Statistics	3	College Requirement
		MECH311	Applied Thermodynamics	3	Specialization
		MECH390	Engineering Materials	3	College Requirement
		MECH407	Machine Design I	3	Specialization
		MECH411	Heat Transfer	3	Specialization
		GENG315	Engineering Economics	3	Specialization
				18	
	Summer	MECH490	Intrenship II	1	Internship
				1	
Year 4	7 (Fall)	MECH585	Design and Critical Thinking in Mechanical Engineering	3	Specialization
		MECH409	Dynamic Systems & Control	3	Specialization
		MECH417	Kinematics Design of Machinery	3	Specialization
		MECH433	Introduction to Computer Aided Manufacturing	3	Specialization
		MECH430	Thermal Engineering Lab	1	Specialization
		MECH440	Design and Manufacturing Lab	1	Specialization
				14	

Semester	Course Code	Course Title	CH	Course type
2 (Spring)	MATH135	Calculus II for Engineering	3	College Requirement
	PHYS110	General Physics II	3	College Requirement
	PHYS140	General Physics Lab II	1	College Requirement
	GENG230	Computer Programming	3	College Requirement
	GENG215	Engineering Ethics	2	College Requirement
	MECH200	Introduction to Engineering Drawing and Workshop	1	Specialization
	MATH140	Linear Algebra I	3	College Requirement
			16	
4 (Spring)	MECH305	Mechanics of Materials	3	Specialization
	MECH315	Geometric Modeling	2	Specialization
	MECH340	Fluid Mechanics	3	Specialization
	MECH348	Fluid Mechanics Lab	1	Specialization
	ELEC372	Electro-Mechanical Devices	2	Specialization
	MECH384	Mathematics for Mech. Eng.	3	Specialization
	Elective	Student choice	3	Gen. Ed. Theme 5: Sustainability
			17	
6 (Spring)	MECH306	Manufacturing Processes	3	Specialization
	MECH310	Dynamics	3	Specialization
	MECH426	Thermofluid System Design & Analysis	3	Specialization
	MECH412	Machine Design II	3	Specialization
	MECH350	Introduction to Mechatronics	3	Specialization
	Elective	Student choice	3	Gen. Ed. Theme 3: Innovation
			18	
8 (Spring)	MECH590	Capstone Engineering Design Project	3	Specialization
	MECH450	Dynamic Systems and Control Lab	1	Specialization
	Elective	Student choice	3	Major Elective
	Elective	Student choice	3	Major Elective
	Elective	Student choice	3	Gen. Ed. Theme 7 or 8 or 9 or 10
			13	

Bachelor of Science in Mechanical Engineering Model Study Plan (2025-2026 Cohort onwards)

For Students Admitted to the University from the Spring Semester

Total Degree Credit hours: 132

	Semester	Course Code	Course Title	CH	Course type
Year 1	1 (Spring)	MATH130	Calculus I for Engineering	3	College Requirement
		PHYS105	General Physics I	3	College Requirement
		PHYS135	General Physics Lab I	1	College Requirement
		GEAE101	Academic English for Humanities and STEM	3	Gen. Ed. Theme 2: Academic Language Proficiency
		CHEM111	General Chemistry I	3	Specialization
		CHEM175	Chemistry Lab I for Engineering	1	College Requirement
		GEIM110	Contemporary Emirati Studies	3	Gen. Ed. Theme 1: UAE National Identity
				17	
Year 2	3 (Spring)	Elective	Student choice	3	Gen. Ed. Theme 7 or 8 or 9 or 10
		MATH275	Ordinary Differential Equations	3	College Requirement
		GENG220	Engineering Thermodynamics	3	College Requirement
		CIVL240	Statics	3	Specialization
		MECH210	Measurement and Instrumentation lab	1	Specialization
		MECH240	Introduction to Computing Lab in ME	1	Specialization
		GEIE222	Fundamentals of Innovation and Entrepreneurship	3	Gen. Ed. Theme 4: Entrepreneurship
				17	
Year 3	5 (Spring)	STAT210	Probability and Statistics	3	College Requirement
		MECH306	Manufacturing Processes	3	Specialization
		MECH310	Dynamics	3	Specialization
		MECH315	Geometric Modeling	2	Specialization
		ELEC372	Electro-Mechanical Devices	2	Specialization
		MECH384	Mathematics for Mech. Eng.	3	Specialization
		MECH348	Fluid Mechanics Lab	1	Specialization
				17	
Year 4	6 (Fall)	MECH411	Heat Transfer	3	Specialization
		MECH407	Machine Design I	3	Specialization
		MECH417	Kinematics Design of Machinery	3	Specialization
		MECH433	Introduction to Computer Aided Manufacturing	3	Specialization
		Elective	Student choice	3	Gen. Ed. Theme 5: Sustainability
				15	
	Summer	MECH490	Intrenship II	1	Internship
				1	
Year 5	8 (Fall)	MECH590	Capstone Engineering Design Project	3	Specialization
		MECH450	Dynamic Systems and Control Lab	1	Specialization
		MECH440	Design and Manufacturing Lab	1	Specialization
		Elective	Student choice	3	Major Elective
		Elective	Student choice	3	Gen. Ed. Theme 3: Innovation
		Elective	Student choice	3	Gen. Ed. Theme 7 or 8 or 9 or 10
				14	

Semester	Course Code	Course Title	CH	Course type
2 (Fall)	MATH135	Calculus II for Engineering	3	College Requirement
	PHYS110	General Physics II	3	College Requirement
	PHYS140	General Physics Lab II	1	College Requirement
	GENG230	Computer Programming	3	College Requirement
	GENG215	Engineering Ethics	2	College Requirement
	MECH200	Introduction to Engineering Drawing and Workshop	1	Specialization
	MATH140	Linear Algebra I	3	College Requirement
			16	
4 (Fall)	MECH305	Mechanics of Materials	3	Specialization
	MECH311	Applied Thermodynamics	3	Specialization
	MECH340	Fluid Mechanics	3	Specialization
	MECH390	Engineering Materials	3	College Requirement
	GENG315	Engineering Economics	3	College Requirement
	MECH350	Introduction to Mechatronics	3	Specialization
			18	
Summer	MECH485	Intrenship I	1	Internship
			1	
7 (Spring)	MECH585	Design and Critical Thinking in Mechanical Engineering	3	Specialization
	MECH409	Dynamic Systems & Control	3	Specialization
	MECH412	Machine Design II	3	Specialization
	MECH426	Thermofluid System Design & Analysis	3	Specialization
	MECH430	Thermal Engineering Lab	1	Specialization
	Elective	Student choice	3	Major Elective
			16	