	Student Name	Email		T-Number	
2018-2019 MECHANICAL SYSTEMS EI				NGINEERING BS: 4 YR. SEQUENCE	
FALL CLASSES			SPRING CLASSES		
FALL: First Semester (15 hours)			SPRING: Second Semester (15 hours)		
	SYEN 1210 Intro to Systems Eng Experience) SYEN 1207 Intro to Mechanical Engine CHEM 1406 Engineering Chemistr General Chemistry I MATH 1451 Calculus Core: Communications – Written (RHE	eering y OR CHEM 1402		SYEN 2117 Fabrication Lab I OR ETME 2117 Manufacturing Processes Lab PHYS 2321/2121 Physics for Scientists and Engineers I and Lab MATH 1452 Calculus II Core: Communications – Written (RHET 1312) Core: U. S. Traditions (HIST 2311/2312 or POLS 1310)	
FALL: Third Semester (17 hours)			SPRING: Fourth Semester (18 hours)		
	SYEN 1302 C/C++ Programming Scientists PHYS 2322/2122 Physics for Scientists MATH 2453 Calculus III Core: Social Science Core: History of Civilization (HIST 1311	s and Engineers II		SYEN 2370 Engineering Statics OR CNMG 2370 Engineering Statics SYEN 3314 Probability Theory and Random Variables or MATH 3350. Intro to Probability SYEN 3372. Engineering Materials MATH 3322 Introduction to Differential Equations Core: Fine Arts Core: Humanities (PHIL 2321)	
FALL: Fifth Semester (17 hours)			SPRING: Sixth Semester (15 hours)		
	SYEN 2233 Solid Modeling and Design SYEN 3316 Discrete Events System Simulation SYEN 3371 Engineering Dynamics SYEN 3373 Introduction to the Mechan SYEN 3378 Engineering Thermodynamics Engineering Thermodynamics MATH 3312 Linear Algebra	tems Modeling and		SYEN 3312 Optimization Methods in Systems Engineering SYEN 3320 Systems Engineering Design and Analysis SYEN 3370 Vibrations I SYEN 3379 Elements of Mechanical Design SYEN 4374 Fluid Mechanics	
FALL: Seventh Semester (17 hours)			SPRING: Eighth Semester (16 hours)		
	SYEN 4185 Systems Engineering Cap SYEN 3318 Decision and Risk Analysis SYEN 4174 Mechanical Engineering La SYEN 4379 Heat Transfer SYEN 4326 Measurement Technique Electronics SYEN X3XX Major Elective ¹ SYEN X3XX Major Elective ¹	aboratory I es OR PHYS 3350		SYEN 4386 Systems Engineering Capstone Design II SYEN 3301 Engineering Economy OR CNMG 3302 Engineering Economy SYEN 3364 Intro to Control Systems Engineering SYEN 4176. Mechanical Engineering Laboratory II SYEN X3XX Major Elective ¹ SYEN X3XX Major Elective ¹	

SYEN 4182/4282 MEMS and Microsystems, SYEN 4315 Advanced Dynamics, SYEN 4320 Linear State-Space Control Systems, SYEN 4325 Fuzzy Logic in Control and Systems Engineering, SYEN 4327 Acoustics I, SYEN 4329 Robust and Optimal Control, SYEN 4335 Mechatronics I, SYEN 4350 Digital Signal Processing, SYEN 4371 Continuum Mechanics, SYEN 4372 Mechatronics II, SYEN 4375 Mechanical Vibrations, SYEN 4376 Mechanics of Materials, SYEN 4380 HV ACR Engineering Fundamentals, SYEN 4381 Thermal Powerplant Engineering, SYEN 4388 Finite Element Analysis, SYEN 4384 Computational Methods in Fluid and Heat Transfer