Mechanical Engineering -- possible path to a four-year degree in three years

Student arrives with: Math through Calc III (MATH 165, 166, 265); Physics through Phys II (PHYS 231+PHYS 231L & PHYS 232+PHYS 232L); English 150; Two qualifying Gen Ed courses (6 credits); Chemistry I (CHEM 167)

Year 1

FALL		Spring	
3	C E 274 (Statics)	3	E M 324 (Mechanics of Materials)
1	ENGR 101 (Engr. Orientation)	4	MATH 267 (Differential Equations)
3	M E 160 (Problem Solving with Comp. Applications)	3	M E 231 (Thermodynamics I)
3	M E 170 (Graphics and Intro. Design)	3	M E 270 (Intro to ME Design)
3	ENGL 250 (W.O.V.E. Comp)	3	MAT E 273 (Principles of Material Science and Engineering)
1	LIB 160 (Library)	R	M E 202 (ME Professional Plan)
14	Total Credits	16	Total Credits

Year 2

FALL		Spring	
2	E E 442 (Circuits & Instruments)	3	M E 325 (Mechanical Component Design)
2	E E 448 (AC Circuits & Motors)	4	M E 335 (Fluid Flow)
3	M E 345 (Dynamics)	3	M E 370 (Engr. Measurements)
3	M E 332 (Thermodynamics II)	3	M E 324 (Manufacturing Engr.)
3	STAT 305 (Engr. Statistics)	3	Communication Elective
3	Gen Ed Elective		
1	M E 324L (Manufacturing Lab)		
17	Total Credits	16	Total Credits

Year 3

FALL		Spring	
3	Gen Ed Elective (Intl Perspective)	3	Gen Ed Elective (US Diversity)
4	M E 421 (System Dynamics & Control)	3	Technical Elective
4	M E 436 (Heat Transfer)	3	Technical Elective
3	Technical Elective	3	Technical Elective
3	Technical Elective	3	Capstone Design
17	Total Credits	15	Total Credits

This curriculum is intended to demonstrate that it is possible to complete a four-year degree in three years. The courses and sequence should be verified with an academic advisor, as the curriculum can change to address the needs of employers. Similar accelerated programs can be developed in all engineering disciplines.