

Department of Mechanical and Manufacturing Engineering
Engineering & Computing Center 100 / 320-308-5654 / mme@stcloudstate.edu

B.S. in Mechanical Engineering – 128 credits in the major					
First Semester - 15 credits			Second Semester - 15 credits		
*GENG 101 (3) – Ethic Engr Prof			*GENG 102 (3) – Prob Solv		
*CHEM 210 (4) – Chemistry I			*PHYS 234 (5) – Physics 1		
*MATH 221 (4) – Calculus I			*MATH 222 (4) – Calculus II		
Lib Ed ¹ – Goal Area 1 (4) ENGL 191			Lib Ed ¹ – Goal Area 1 (3) CMST 192		
Third Semester - 16 credits			Fourth Semester - 17 credits		
*MME 243 (4) – Statics&Dynam			MME 201 (4) – Thermo&Conduct		
*ECE 201 (3) – Circuits I			MME 211 (4) – Materials&Struct		
Or ENGR 332 (3) - Electronics			MME 224 (4) – Engr Des Graphic		
*PHYS 235 (5) – Physics II			GENG 380 (2) – Engr Communic		
*MATH 327 (4) – Diff Eq w/Lin Alg			ETS 345 (3) Manufact Processes		
Fifth Semester - 18 credits			Sixth Semester - 17 credits		
MME 333 (4) – Mfg Processes			MME 303 (4) – Fluids&Convect		
MME 342 (4) – Fatigue & Machine			MME 346 (4) – Mechan&Robots		
MME 352 (4) – Sensors & Controls			MME 353 (4) – Controls&Vibrate		
MATH 320 (3) or 321 (4) - Multi Vari			GENG 360 (2) – Engr Econ		
Calc or PHYS 346 (3) - Apps in Phys			STAT 353 (3) – Statistics for Engr		
Lib Ed ¹ –GoalArea 5 (3) ECON 205 or			or STAT 417 (3) – Prob & Sim		
206)					
Seventh Semester - 15 credits			Eighth Semester - 15 credits		
MME 402 (3) – Energy Analysis			MME 481 (3) – Senior Design II		
MME 480 (3) – Senior Design I			Technical Elective ² (3)		
Technical Elective ² (3)			Technical Elective ² (3)		
Lib Ed ¹ - Goal Area 5&10 (3) SOC 200			Lib Ed ¹ -GoalArea 7 (3) GWS 220		
Lib Ed ¹ –GoalArea2&6 (3) ENGL 306 or			Lib Ed ¹ -GoalArea 6 & 8 (3) ART 131		
CMST 306					

*A minimum GPA of 2.50 in these courses is required prior to applying for admission to the MME major. A minimum GPA of 2.50 must also be maintained in core (MME, MATH, PHYS, ECE, etc.) courses afterward to maintain good standing in the program.

¹For engineering students, Goal Areas 3, 4, and 9 are satisfied within the major. ECON 205 or 206, two diversity, and one racial issue course must be completed as part of satisfying the other Goal Areas. Options other than the examples shown are possible.

²Technical electives include **one FREE** (non-MME) course and **two MME** technical electives.

- Pick the **one FREE** technical elective from: MATH 312, 427, 452, 453; CHEM 211, 240, 320; PESS 249, 448; PHYS 328; BIOL 202, 366; MME 444 *Internship*.
- Pick the **two MME** technical electives from MME 404 *CFD*, 414 *Composite Materials*, 420 *Finite Element*, 430 *Precision Mfg*, 440 *Solid Mechanics*, 442 *Dynamics II*, 450 *Robotics*, 490 *Special Topics*, PHYS 333 *Optics*, 435 *Laser Optics*.

MME area technical electives are offered alternating years.