

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

*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.