

Bachelor of Science in Materials Science and Engineering[†]

Department of Materials Science and Engineering

Mapping of Courses and Activities to Program Outcomes

Principal Program Outcome	Courses
PO1. Knowledge of math, science and engineering	CHEM151, ENGR102, MATH124/5, PHYS141, MATH129, MSE110, MSE 222, MATH223R, PHYS241, MATH254, ECE207, Science Elective, MSE 345, MSE 365, MSE 409, MSE 415, MSE 480, ENGR 498, MSE 498
PO2.knowledge of MSE, interrelationship between processing, microstructure, properties and performance	MSE222, MSE345, MSE 360L, MSE365, MSE223R, MSE223L, 4 MSE Technical Electives in various areas of specialization, MSE 409, MSE480, MSE415, ENGR 498, MSE 498
PO3. Work in multidisciplinary teams	MSE 223R, MSE223L, MSE350, MSE360L, MSE 365, MSE 480, MSE or ENGR498, 3 Technical Electives
PO4. Communicate effectively	ENGL102, Tier II Arts or Humanities (4 and 6), MSE 223R, MSE 223L, MSE 360L, MSE 365, MSE 480, ENGR 498, MSE 498
PO5. Use of modern tools	MSE 223R, MSE223L, MSE 345, MSE350, MSE360L, MSE480, MSE415 (These also fit into another category, such as 2 or 3), ENGR 498, MSE 498
PO6. Life-long learning, data bases and professional society offerings	2 Tier I INDV, 2 Tier 1 TRAD, Tier II INDV, Tier II Arts or Humanities, MSE 223R, MSE 223L, MSE 360L, MSE 480, ENGR 498, MSE 498
PO7. Lifelong learning, responsibility to profession and society	MSE 223R, ENGR 498, MSE 498

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[†]Accredited by the Engineering Accreditation Commission of ABET,
<http://www.abet.org>.