

**Table 4-2 Student Outcomes Mapped to Required Courses**

<b>Course (credits)</b>	<b>Student Outcomes</b>										
<b>Mat E Core (32)</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>e</b>	<b>f</b>	<b>g</b>	<b>h</b>	<b>i</b>	<b>j</b>	<b>k</b>
215 Intro Materials I(3)	√				√		√				√
215L Lab (1)	√	√			√		√				√
216 Intro Materials II(3)	√				√		√				√
216L Lab (1)	√	√			√		√				√
214 Characterization of Matls (3)	√	√					√				√
311 Thermodynamics (3)	√				√						√
314 Kinetics and Phase Equilibria (3)	√				√		√				√
316 Computation Methods (3)	√	√		√	√		√				√
317 Electronic Properties Matls (3)	√				√		√				√
401 Professional Planning						√	√		√		
418 Mechanical Behavior Matls (3)	√				√		√				√
413 Design and Prof Prac I(3)	√	√	√	√	√	√	√	√	√	√	√
414 Design and Prof Prac II(3)	√	√	√	√	√	√	√	√	√	√	√
<b>Specialization: Ceramic Materials</b>											
321 Intro Ceramic Science (3)	√				√		√		√		√
322 Intro Ceramic Processing (3)	√	√	√		√		√				√
425 Glass Science and Engineering (3)	√	√	√		√	√	√		√	√	√
433 Advance Electronic Materials (3)	√				√			√	√	√	
<b>Specialization: Metallic Materials</b>											
341 Metals Processing (3)	√	√			√			√		√	√
342 Structure Property in Nonferrous(3)	√		√		√		√				√
443 Physical Metallurgy in Ferrous (3)	√		√		√		√		√	√	
444 Corrosion and Failure Analysis (3)	√	√					√				√
<b>Specialization: Polymeric Materials</b>											
Chem 331 Organic Chemistry (3) *											
351 Intro Polymeric Materials (3)	√				√			√		√	√
453 Physical, Mechanical Prop. in Polymers (3)	√	√		√	√		√				√
454 Polymer Composites and Processing (3)	√				√		√			√	√

\* No outcomes mapped to this course because it is not taught in the MSE department.