|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Course Number and Title* | *Credits* | *Completed* | *In Progress* | *Future* |
| Required Courses |  |  |  |  |
| MSE 605 Crystallography and Crystal Chemistry | 4 |  |  |  |
| MSE 608 Solid State Thermodynamics | 4 |  |  |  |
| MSE 618 Phase Transformations and Kinetics | 4 |  |  |  |
| Required Core Emphasis Course Choose at least three credits from the following, or alternative Core Emphasis Course(s) approved by the graduate program coordinator: MSE 510 Electrical, Optical, and Dielectric Materials MSE 512 Mechanical Behavior of Materials \*PHYS 515 Solid State Physics | 3 |  |  |  |
| Required Characterization Course Choose at least three credits from the following, or alternative Characterization Course(s) approved by the graduate program coordinator: CHEM 522 Spectroscopy CHEM 540 Spectroscopic Identification CHEM 560 Introduction to NMR Spectroscopy MSE 521 Introduction to Electron Microscopy MSE 525 Surface Analysis \*PHYS 523 Physical Methods of Materials Characterization | 3 |  |  |  |
| Required Processing Course Choose at least three credits from the following, or alternative Processing Course(s) approved by the graduate program coordinator: MSE 540 Advanced Processing MSE 542 Ceramic Processing MSE 545 Nanoscale Processing | 3 |  |  |  |
| Other Graduate Courses | 6 |  |  |  |
| Culminating Activity |  |  |  |  |
| MSE 591 Project | 3 |  |  |  |
| Total | 30 |  |  |  |
| \*Recommended Course |  |  |  |  |