

## Potential Courses offered by Other Departments at UTK

MABE students can also take up to 3 credits of courses from other department related to the same

### *College of Business*

- SCM 520—Manufacturing/Services Operations and Procurement
- SCM 547—Supply Chain Analytics and Strategy
- SCM 621—Operations and Purchasing Management

### *College of Arts and Sciences*

- OMS 541—Operations Management

### *Industrial Engineering*

- IE 401—Facilities planning and Material Handling
- IE 402—Production system planning and control
- IE 423—Industrial Safety
- IE 427—Introduction to lean systems
- IE 430—Supply Chain Engineering
- IE 483— Introduction to Reliability Engineering
- IE 484—Introduction to Maintainability Engineering
- IE 526—Advanced Systems and Modeling
- IE 556—Data mining in Engineering
- IE 517—Reliability of Lean System
- IE 518—Advanced Engineering Economic Analysis
- IE 530—Advanced Supply Chain Engineering

### *Materials Science and Engineering*

- ME 525 and 527—Welding Metallurgy
- MSE 511—Fundamentals of Materials Science and Engineering I (crystal structures)
- MSE 512—Fundamentals of Materials Science and Engineering II (mechanics of materials)
- MSE 513—Fundamentals of Materials Science and Engineering III (thermodynamics)
- MSE 514—Fundamentals of Materials Science and Engineering IV (electron magnetic materials)
- MSE 612—Computational Plasticity and Micromechanics
- MSE 539—Polymer Engineering I
- MSE 545—Polymer Engineering Processing and Characterization Laboratory
- MSE 552—Laboratory Methods in Polymer Engineering
- MSE 639—Polymer Engineering II
- MSE 576—Special Topics in Materials Science and Engineering
- MSE 676—Advanced Topics in Materials Science and Engineering
- MSE 650—Mechanical Behavior of Solids at Elevated Temperatures

### *Nuclear Engineering*

- ME/IE/NE 483—Introduction to Reliability Engineering
- ME/IE/NE 484—Introduction to Maintainability Engineering
- NE 575—Equipment and Systems Prognostics
- NE 579—Empirical Models for Monitoring and Diagnostics
- NE 585—Process System Reliability and Safety

### *Electrical Engineering and Computer Science*

- ECE 523 (3)— Power Electronics and Drives
- ECE 525 (3)—Alternative Energy Sources.