Requirements for a Concentration in Manufacturing Engineering

The experiential component required for the Manufacturing Concentration is intended to exercise and apply learnings from Manufacturing curriculum and is ideally performed after completing the 4-course sequence specified above. Students must complete either ME 345 or ME 420 to be eligible to undertake an approved experience. Options for experiences include senior design, internships, and experiential courses, and others by approval.

The concentration in Manufacturing Engineering can be earned by any student within the College of Engineering by fulfilling the following requirements:

1. **A sequence of three required courses (12 cr) and one elective course (4 cr):**

   **Required Courses:**
   - ENG ME 345* – Automated MFG – 4 cr
   - ENG EK 409 – Engineering Economy – 4 cr
   - ENG ME 420* – Supply Chain Engineering – 4 cr
   
   *ME 345 or ME 420 must either be taken satisfactorily PRIOR to the Experiential Component

   **Elective Courses:**
   - QST SI 480 – The Business of Technology Innovation
   - ENG BE 428 - Device and Diagnostics Design
   - ENG ME 502 – Intellectual Assets (Fall Only)
   - ENG ME 507 – Process Modeling and Control
   - ENG ME 510 – Production Systems Analysis
   - ENG ME 517 – Product Development
   - ENG ME 535 - Green Manufacturing
   - ENG ME 579 – Microelectronic Device Manufacturing
   - ENG ME 584 – Manufacturing Strategy

2. **Experiential Component Requirement:**

   Completion of a well-defined experiential component in the manufacturing area. A senior design project, laboratory research, industrial internship or a directed study can satisfy this requirement. This requirement must be approved by the Concentration Coordinator and the Experiential Component Approval form must be submitted to the Undergraduate Records Office.

   After its completion, a written summary of the experiential component must also be submitted for approval (see Experiential Component Approval form and/or college Manufacturing concentration webpage: http://www.bu.edu/eng/academics/programs/concentrations/manufacturing/ for more information).