

**FOUR PILLARS AND PROPOSED B.S. MANUFACTURING ENGINEERING TECHNOLOGY PROGRAM AT  
BUFFALO STATE COLLEGE**

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In the current global economy, both manufacturers and educators are facing many challenges. Educational Institutions are trying to prepare professionals with a set of skills so that they can meet these global challenges, enabling manufacturing industries to compete globally. For this end, the Society of Manufacturing Engineers (SME), ABET, ATMAE, along with various academic institutions and industrial organizations, have come together to form a study group to steer and provide recommendations for training and education of future manufacturing engineers. Findings of this group (CURRICULUM 2015) focused on manufacturing education in terms of its past and future and its relationship with industry.

This presentation will outline the identified competencies for manufacturing education by this group, and the recommended curriculum (based on the “four pillars” of Manufacturing), for 2-year and 4-year programs in Manufacturing Engineering/Technology. Finally, a proposed B.S. in Manufacturing Engineering Technology program will be presented, outlining how it meets the recommended four pillars structure of the Society of Manufacturing Engineers.