



# CoCo Seminar Series Fall 2016

## Digital Manufacturing: Advancing in Technology

**Dr. Christopher Greene**  
**Assistant Professor of Systems Science and**  
**Industrial Engineering**  
**Binghamton University**

**Wednesday November 2nd, 2016**  
**8:30-9:30am Engineering Building H-9**  
**(Knoll-MacDonald Commons / Watson**  
**Commons; Audience will be guided to the access-restricted Digital**  
**Manufacturing Laboratory, so please be in H-9 on time at 8:30am!)**



Digital Manufacturing has been defined as the use of an integrated, computer-based system comprised of simulation, three-dimensional (3D) visualization, analytics and various collaboration tools to create product and manufacturing process definitions simultaneously. Some of the tools involved with Digital Manufacturing include Artificial Intelligence, Smart Technology, Cobotics, Additive Manufacturing, Modeling and Simulation, Cloud-based Design, and the Internet of Things. These tools are utilized to aid manufacturers in such areas as product design, process design, integration, quality control, parameter settings, continual process, and overall 'optimization' to name a few. The Digital Manufacturing Laboratory being developed here at Binghamton will concentrate on three areas: Artificial Intelligence, Cobotics, and Additive Manufacturing for Electronics Manufacturing. A brief overview will be given followed by a demonstration of the cobot Baxter.

Dr. Christopher Greene is Assistant Professor of Systems Science and Industrial Engineering at Binghamton University. His research interests include cobotics, additive manufacturing, electronics manufacturing, robotics & automation and systems engineering analysis.

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