

## Master of Engineering (MEng) – Course Requirements

### Particle Technology and Fluidization (PT)

CORE COURSES (SELECT 1 FROM EACH CATEGORY)		
<b>Category 1:</b> CBE 9550 – Advanced Particle and Fluidization Engineering		
<b>Category 2:</b> CBE 9115 – Fundamentals of Heat & Mass Transfer; OR CBE 9450 – Advanced Chemical Reaction Engineering		
<b>Category 3:</b> CBE 9561 – Advanced High Velocity Fluidization Technology; OR CBE 9587 – Fine Powder Technologies and Application		
PROFESSIONAL ENGINEERING COURSES (SELECT 2 COURSES ONLY – TAUGHT IN SUMMER TERM ONLY)		
<a href="#">See John M. Thompson Centre for Engineering Leadership and Innovation website for list of all ELI courses. Any two ELI courses are acceptable for the MEng program.</a>		
ELECTIVE COURSES		
CBE 9110 – Chemical Kinetics & Catalysis (Non-Eng Bkgnd)	CBE 9112 – Design & Analysis Principles (Non-Eng. Bkgnd)	CBE 9115 – Fundamentals of Heat & Mass Transfer
CBE 9150 - Advanced Chemical Engineering Thermodynamics	CBE 9155 – Advanced Fluid Mechanics	CBE 9132 – Energy & Fuel Production Systems
CBE 9160 - Transport Processes	CBE 9170 - Mathematical Methods in Engineering	CBE 9180 - Instrumental Methods of Analysis
CBE 9190 - Statistical Process Analysis	CBE 9211 - Fundamentals of Biochemical Eng.	CBE 9241 - Nano-biotechnology
CBE 9250 - Advanced Biomaterials Engineering	CBE 9260 - Advanced Bioengineering and Biotechnology	CBE 9263 - Biosensors: Principles and Applications
CBE 9312 - Air Pollution Control	CBE 9334 - Processes for Green Products	CBE 9350 - Physical Principles of Environmental Engineering
CBE 9417 - Industrial Catalysis	CBE 9424 - Computer Process Control	CBE 9450 - Advanced Chemical Reaction Engineering
CBE 9456 – Critical Review of Global Energy	CBE 9461 - Advanced Process Control	CBE 9544 - Pharmaceutical Manufacturing Processes
CBE 9550 - Advanced Particle and Fluidization Engineering	CBE 9561 - Adv. High Velocity Fluidization	
NOTES		
1. Graduate courses from other disciplines in the Faculties of Engineering may be taken as technical electives subject to the approval of the Associate-Chair, MEng. 2. If a core course is not currently being offered, it will be replaced by another course subject to the program director approval.		