Core Technical Courses (Must take the following three courses per area of specialization)			
ENVIRONMENTAL AND GREEN ENGINEERING	BIOMATERIALS AND BIOCHEMICAL ENGINEERING	REACTIONS AND PROCESS SYSTEMS ENGINEERING	PARTICLE TECHNOLOGY AND FLUIDIZATION
CBE 9350 – Physical Principles of Environmental Engineering	CBE 9260 - Advanced Bioengineering and Biotechnology	CBE 9450 - Advanced Chemical Reaction Engineering	CBE 9550 - Advanced Particle and Fluidization Engineering
CBE 9361 - Biological Wastewater Treatment or CBE 9312 - Air Pollution Control or CBE 9314 – Solid Waste Treatment	CBE 9250 - Advanced Biomaterials Engineering	CBE 9160 - Transport Processes	CBE 9160 - Transport Processes or CBE 9450 - Advanced Chemical Reaction Engineering
CBE 9311 - Green Energy and Engineering or CBE 9334 – Green Fuels and Chemicals	BME 9526 - Tissue Engineering or CBE 9241 – Nanobiotechnology	CBE 9552 – Industrial Three-Phase Reactor Systems or CBE 9455 – Advanced Polymerization Engineering	CBE 9551 – Advanced Design in Fluidized Bed Reactors or CBE 9561 – Advanced High Velocity Fluidization Technology or CBE 9587 – Fine Powder Technologies and Application
Professional Engineering Courses (Two of the following four courses are required)			
ECE 9010 - Intellectual Property for Engineers		CBE 9185 - Risk Assessment and Management in Engineering Systems	
CEE 9510 – Engineering Planning and Project Management		MME 9670 – Engineering Communication	
Recommended CBE Electives			
CBE 9132 – Oil Refining and Processing		CBE 9150 - Advanced Chemical Engineering Thermodynamics	
CBE 9160 - Transport Processes		CBE 9170 - Mathematical Methods in Engineering	
CBE 9180 - Instrumental Methods of Analysis for Engineers		CBE 9190 - Advanced Statistical Process Analysis	
CBE 9211 – Fundamentals of Biochemical Engineering		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 – Green Fuels and Chemicals		CBE 9350 - Physical Principles of Environmental Engineering	
CBE 9417 – Industrial Catalysis		CBE 9424 - Computer Process Control	
CBE 9450 - Advanced Chemical Reaction Engineering		CBE 9455 - Advanced Polymerization Engineering	
CBE 9461 – Advanced Process Control		CBE 9544 – Pharmaceutical Manufacturing Processes	
CBE 9550 - Advanced Particle and Fluidization Engineering		CBE 9552 - Industrial Three-Phase Reactor Systems	
CBE 9561 – Advanced High Velocity Fluidization			
NOTES			
appropriate form to enroll in courses out	tside the home program (CBE) and this is s	ubject to the approval of the MEng Program	m Director.

## Master of Engineering–Course Requirements by Specialization