

Integrated Engineering and Business Option

September 2018 (for students who entered HBA in September 2017 or later)

Year 2:	
Term A	
AM 2270a	Applied Mathematics for Engineering II
CEE 2202a	Mechanics of Materials
ECE 2277a	Digital Logic Systems
MSE 2214a	Thermodynamics I
MME 2259a	Product Design and Development
Bus 2257	Accounting and Business Analysis
Term B AM 2276b CBE 2221b	Applied Mathematics for Electrical and Mechanical Engineering III Fluid Flow
CBE 2291b	Computational Methods for Engineers
ECE 2238b	Introduction to Electrical Engineering
SS 2143b	Applied Statistics and Data Analysis for Engineers
Bus 2257	Accounting and Business Analysis

Year 3: HBA 1

Year 4:

Term A

ES 3331a	Engineering Innovation II: Managing the Innovation Proces
CBE 2220a	Chemical Process Calculations
CBE 3322a	Heat Transfer Operations
CEE 2220a	Structural Theory and Design I
ECE 3374a	Introduction to Electronics for Mechanical Engineering
Bus 4569	Ivey Field Project

Term B

ES 3330b	Engineering Innovation I: New Venture Creation
MSE 2213b	Engineering Dynamics
MME 2285b	Engineering Experimentation
MSE 3360b	Finite Element Methods for Mechanical Engineering
ES 4498G	Engineering Ethics, Sustainable Development and the Law

<u>Year 5:</u>

Term A

ES 4499	interdisciplinary Engineering Design Project
ES 4480a	Engineering Innovation III: Leadership and Corporate
	Entropropourchin

Entrepreneurship

0.5 technical elective 1.5 HBA required courses**

Term B

ES 4499 Interdisciplinary Engineering Design Project

1.0 technical electives

1.5 Business electives chosen from 4000 level Business courses.

NOTES:

**1.5 HBA required courses:

- International Perspective Requirement: Business 4505a/b
- Corporations and Society Requirement: at least 0.5 course from Business Administration – Corporations and Society designated electives offered during the academic year or other business elective as determined and approved by the HBA Program Director to satisfy this requirement.
- Managerial Accounting Requirement: Business 4624a/b

Technical Elective List:

Some technical electives may not be offered in a given academic year. Consult the Department for accurate listing.

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Chemi	cal and Biochemical Engineering:	
CBE 2290a/b	Fundamentals of Biochemical and	
	Environmental Engineering	
CBE 3310a/b	Process Dynamics and Control	
CBE 3324a/b	Mass Transfer Operations	
CBE 4409a/b	Wastewater Treatment	
CBE 4421a/b	Introduction to Biomaterials Engineering	
Civil a	and Environmental Engineering:	
CEE 3348a/b	Project Management and Engineering	
	Cases	
CEE 3362a/b	Drinking Water Quality and Treatment	
CEE 4405a/b	Air Pollution	
CEE 4418a/b	Systems Approach for Civil and	
CEE 4416a/b	Environmental Engineering	
CEE 4458a/b	Risk Analysis and Decision Making in	
CEE 4436a/b	Engineering	
CEE 4465a/b	Environmental Design for Waste Disposal	
CEE 4477a/b	Environmental Applications of	
	Nanotechnology	
Electrical and Computer Engineering:		
ECE 3349a/b	Introduction of VLSI	
ECE 3375a/b	Microprocessors and Microcomputers	
FCF 4426a/b	Networking: Principles, Protocols, and	
ECE 4436a/b	Architecture	
ECE 4468a/b	Systems Optimization	
SE 3314a/b	Computer Networks Applications	
Mech	anical and Materials Engineering:	
MME 3379a/b	Materials Selection	
MME 3381a/b	Kinematics and Dynamics of Machines	
MME 4452a/b	Robotics and Manufacturing Automation	
MME 4473a/b	Computer Integrated Manufacturing (CIM)	
MME 4487a/b	Mechatronic System Design	
MME 4492a/b	Production Management for Engineers	