UNIVERSITY OF MIAMI BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING Program Requirements – 128 Credits 2018 – 2019

NAME:

STUDENT #:

COURSE	CR	SEM	GR	QP	SUB			COURSE AN YEAR**	CR	SEM	GR	QP	SUB	INI
IEN 111 Introduction to Engineering I	3					TRE		IEN 112 Introduction to Engineering II	2					
ENG 105 English Composition I	3							ENG 107 Writing About Science	3					
MTH 151 Calculus I for Engineers	5							MTH 162 Calculus II	4					
PHY 205 University Physics I	3							ECO 211 or ECO 212 Economic Principles & Problems	3					
								PHY 206 University Physics II	3					
								PHY 208 University Physics II Lab	1					
						SOP	HOM	IORE YEAR						
HA Cognate (HA Elective) ¹	3							HA Cognate (HA Elective) ¹	3					
IEN 201 Methods Analysis & Work Measurements	3							CAE 210 Mechanics of Solids I, or ECE 205 Principles of Electrical Engineering I, or MAE 303 Thermodynamics I	3					
MTH 210 Vectors & Matrices	3							CHM 151 Chemistry for Engineers I	3					
PHY 207 University Physics III	3							CHM 153 Chemistry Laboratory for Engineers	1					
PHY 209 University Physics III Lab	1							MTH 311 Ordinary Differential Equations	3					
PS Cognate (PS Elective) ¹	3							PS Cognate (PS Elective) ¹	3					
						J	UNIC	DR YEAR						
HA Cognate (Advanced HA Elective) ¹	3							IEN 312 Applied Statistical Methods	3					
IEN 310 Introduction to Engineering Probability	3							IEN 361 Industrial Cost Analysis	3					
IEN 351 Industrial Safety Engineering	3							IEN 363 Project Management for Engineers	3					
IEN 380 Engineering Economy	3							IEN 406 Computer-Aided Manufacturing	3					
IEN 441 Deterministic Models in Operations Research	3							IEN 442 Stochastic Models in Operations Research	3					
PS Cognate (Advanced PS Elective) ¹	3							Technical Elective ²	3					
		1	T	1		**S	ENIC	DR YEAR**						
IEN 465 Production & Inventory Control	3							IEN 494 Senior Project	3					
IEN 512 Statistical Quality Control & Quality Management	3							IEN 524 Decision Support Systems in IE	3					
IEN 547 Computer Stimulation Systems	3							IEN 568 Material Handling & Facilities Planning	3					
IEN 557 Ergonomics & Human Factor Engineering	3							IEN Elective ³	3					
IEN Elective ³	3			1				IEN Elective ³	3		1		1	

¹Students take a minimum of 3 courses (9 credit hours) in HA cognate and 3 courses in PS Cognate (9 credit hours).

²The Technical Elective is selected from courses at the 300 level or above, offered by one of the following departments: MTH, BME (except BME 320), CAE, ECO, EEN, IEN, MEN, ACC, FIN, MGT (except MGT 303), MAS, MKT.

³IEN Electives are selected from courses at the 300 level or above, offered by the Department of Industrial Engineering.