

SAMPLE CURRICULUM with SEMESTER IN LUXEMBOURG
ENGINEERING MANAGEMENT - MANUFACTURING ENGINEERING TECHNICAL SPECIALITY
SCHOOL OF ENGINEERING & APPLIED SCIENCE - MIAMI UNIVERESITY
2008-2009

Please see advisor for MUDEC courses and other alternatives

First Year

<u>First Semester</u>	<u>Second Semester</u>	<u>Summer</u>
EAS 101 Computing, Engineering & Society	1 EAS 102 Problem Solving & Design	3
ENG 111 College Composition (MPF I)	3 ENG 112 Composition & Literature (MPF I)	3
MTH 151 Calculus I (MPF V)	5 MTH 251 Calculus II	4
PHY 181 Physical World (MPF IVB)	4 PHY 182 Physical World (MPF IVB)	4
PHY 183 Physical World Lab (MPF IVB)	1 PHY 184 Physical World Lab (MPF IVB)	1
Miami Plan U.S. Cultures Course (MPF IIIA)	3 Miami Plan Fine Arts Elective (MPF IIA)	3
	17	18

Second Year

<u>First Semester</u>	<u>Second Semester</u>	<u>Summer</u>
CHM 141 College Chemistry (MPF IVB)	3 ACC 221 Intro to Financial Accounting	3
CHM 144 College Chemistry Lab (MPF IVB)	2 ECO 202 Prin of Macroeconomic (MPF IIC)	3 Miami Plan World Cultures (MPF IIIB)+ 3
ECO 201 Prin of Microeconomic (MPF IIC)	3 MKT 291 Principles of Marketing	3 Miami Plan Biological Science (MPF IVA) 3
MME 211 Static Modeling of Mechanical Systems	3 STA 368 Introduction to Statistics	4 COM 135 Public Express/Critical (MPF IIB) 3
MME 213 Computational Methods in Engineering	3 MME 223 Engineering Materials	3
MTH 245 Differential Equations for Engineers	3	
	17	16 9

Third Year

<u>First Semester</u> – in Luxembourg	<u>Second Semester</u>	<u>Summer</u>
Language	4 ECE 205 Electric Circuit Analysis	3
Miami Plan	3 ENG 313 Technical Writing	3
Miami Plan Thematic Sequence Courses (MPT)	9 MME 231 Manufacturing Processes	3
	MME/PCE 341 Engineering Economics	3
	MGT 291 Organizational Behavior & Theory	3
	EGM/MGT 311 Project Management	3
	16	18

Fourth Year

<u>First Semester</u>	<u>Second Semester</u>
MME/ECE 303 Computer-Aided Experimentation	4 CSA 372 Analysis of Stochastic Systems
MME 312 Mechanics of Materials	3 MME/PCE 314 Engineering Thermodynamics
MME 334 Quality Planning and Control	3 MME 437 Computer-Integrated Mfg Systems
MME 434 Advanced Manufacturing	3 MME/ECE 449 Senior Design Project (MPC)
MME/ECE 448 Senior Design Project (MPC)	2 MGT 302 Operations Management
Management Track	3 Management Track
	18

+The School of Engineering & Applied Science and its Industrial Advisory Council suggest you consider taking IDS 159, Strength Through Cultural Diversity, to meet the World Cultures (MPF IIIB) requirement.

The Miami Plan for Liberal Education Foundation (MPF) requirement includes 6 hours of English Composition (ENG 111-112 fulfills this requirement); 12 hours in Fine Arts, Humanities, and Social Science (ECO 201 fulfills 3 hours of Social Science) with a minimum of 3 hours in each; 6 hours in U.S. and World Cultures; 9 hours of Natural Science, including one laboratory course with a minimum of 3 hours in Biological Science and 3 hours in Physical Science (PHY 181-182, 183-184 and CHM 141-144 more than fulfills the Physical Science requirement; however, a biological science course is still required); 3 hours of Mathematics, Formal Reasoning or Technology (MTH 151 fulfills this requirement). At least one of these foundation courses must provide a historical perspective (H). The actual order in which you take these courses is up to you. The outline above is just one sample of how the courses might be arranged. You must also complete 12 hours of Focus: Advanced Liberal Learning courses, including 9 hours in an approved Thematic Sequence (MPT) and a 3 hour Senior Capstone Experience (MPC) (MME/ECE 448/449 fulfills the capstone requirement).