

FREDERICK UNIVERSITY, SCHOOL OF ENGINEERING AND APPLIED SCIENCES  
MECHANICAL ENGINEERING DEPARTMENT, BSc in Mechanical Engineering

Name: \_\_\_\_\_

Tel: \_\_\_\_\_

Trans. From: \_\_\_\_\_

**TRANSFER CREDITS (DRAFT - 01/2015)**

Semester 1			
Code	Title	ECTS	
AMAT111	Calculus and Analytic Geometry I	5	0
APHY111	Mechanics, Heat, and Waves with Lab	5	0
AMEM100	Freshman Mechanical Engineering	4	0
AMEM107	Introduction to Materials	5	0
AMEG103	Engineering Drawing	4	0
AEEE 103	Electrical Science I	5	0
AMEW101	Mechanical Workshop	2	0
Total Credits		30	0

Semester 2			
Code	Title	ECTS	
AMAT122	Calculus and Analytic Geometry II	5	0
AMAT181	Linear Algebra with MATLAB	5	0
APHY112	Electromagnetism and Optics with Lab	5	0
AMEM110	Materials Engineering	5	0
ACES103	Statics	5	0
ACSC104	Computer Programming for Engineers	5	0
Total Credits		30	0

Semester 3			
Code	Title	ECTS	
AMAT204	Differential Equations	5	0
AMEG202	Computer Aided Design	5	0
AMEE200	Thermodynamics I	5	0
AMEM208	Dynamics	5	0
AMEM214	Strength of Materials and Structures with Lab	6	0
	Free Elective	4	0
Total Credits		30	0

Semester 4			
Code	Title	ECTS	
AMEE202	Fluid Mechanics I	5	0
AMEM201	Manufacturing Processes	5	0
AMEM203	Engineering Economy	5	0
AMEM219	Introduction to FEM in Structural Engineering	5	0
AMEM211	Instrumentation and Data Acquisition Systems	5	0
AMAT300	Probability and Statistics	5	0
Total Credits		30	0

Semester 5			
Code	Title	ECTS	
AMAT314	Numerical Methods	5	0
AMEM316	Machines Elements I	6	0
AMEM323	Mechanical Vibrations and Machine Dynamics	6	0
AMEE310	Hydraulics and Pneumatics	5	0
	Mechanical Engineering Elective	5	0
	Free Elective	3	0
Total Credits		30	0

Semester 6			
Code	Title	ECTS	
AMEM317	Machine Elements II	6	0
AMEE304	Heat Transfer	6	0
AMEM327	Analysis and Design of Mechanical Control Systems	6	0
	Mechanical Engineering Elective	5	0
	Mechanical Engineering Elective	5	0
	Free Elective	2	0
Total Credits		30	0

Semester 7			
Code	Title	ECTS	
AMEM400	Design and Organization of Production Systems	5	0
AMEG408	Heating, Cooling and Air Conditioning	6	0
AMEE431	Internal Combustion Engine Fundamentals	5	0
AMEM405	Manufacturing Processes with the Aid of CAD/CAM systems	6	0
AMEE407	Alternative Sources of Energy	5	0
	Mechanical Engineering Elective	5	0
Total Credits		32	0

Semester 8			
Code	Title	ECTS	
AMEM413	Mechatronics	5	0
AMEM414	Mechanical Engineering Design & Optimization	5	0
AMEE410	Analysis of Power Generation Technologies	5	0
AMET400	Senior Project	8	0
AMEE403	Gas Turbines	5	0
Total Credits		28	0

Fall Semesters Total 0

Spring Semesters Total 0

AENG101	Basic English	0	-
AENG102	Intermediate English	0	-

Modules	ECTS	Transfer*	Need
Required Modules	211	0	211
Mechanical Engineering Elective	20	0	20
Free Elective	9	0	9
<b>TOTAL</b>	<b>240</b>	<b>0</b>	<b>240</b>

\*\* Maximum Transfer credits: 120 ECTS

Number of Credits: 

0
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 ECTS  
The student needs 

240
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 ECTS