## <u>Academic Programs – Mechanical Engineering Program</u>

The table of courses in the Mechanical Engineering Core should be changed to the following (highlighted in red). The change consists of:

- 1) Creation of a New Common Course on Vibration Synthesis & Analysis (EGN 4323).
- 2) Termination of Existing Courses: EML 4220 (Vibration Synthesis & Analysis).

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Mechanical Engineering Core	· · · · · · · · · · · · · · · · · · ·	
Electro-Mechanical Devices	EGM 4045	3
Fundamentals of Engineering	EGN 1002	3
Statics	EGN 3311	3
Dynamics	EGN 3321	3
Strength of Materials	EGN 3331	3
Engineering Thermodynamics	EGN 3343	3
Engineering Materials 1	EGN 3365	3
Experimental Methodology	EML 3523C	3
Fluid Mechanics	EML 3701	3
Applied Thermal Fluid Engineering	EML 4127	3
Heat Transfer	EML 4142	3
Vibration Synthesis and Analysis	EGN 4323	3
Machine Design 2	EML 4262	3
Finite Element Analysis for Engineering Design	EGM 4350	3
Machine Design 1	EML 4500	3
Engineering Design	EML 4521C	3
Design Project	EML 4551	3
Dynamic Systems	EGN 4432	3
Mechanical Engineering Lab	EML 4730L	3

## The sample four-year program of study for BSME should be changed to the following (the change is highlighted in red).

## Sample Four-Year Program of Study for Bachelor of Science in Mechanical Engineering

First Year, Fall (14 credits)		
College Writing 1*	ENC 1101	3
Calculus with Analytic Geometry 1	MAC 2311	4
General Chemistry 1	CHM 2045	3
General Chemistry 1 Lab	CHM 2045L	1
Fundamentals of Engineering	EGN 1002	3

First Year, Spring (14 credits)		
College Writing 2* or equivalent	ENC 1102	3
Calculus with Analytic Geometry 2	MAC 2312	4
Engineering Graphics	EGN 1111C	3
General Physics for Engineers 1	PHY 2048	3
General Physics 1 Lab	PHY 2048L	1

Second Year, Fall (14 credits)		
Statics	EGN 3311	3
Calculus with Analytic Geometry 3	MAC 2313	4
Introduction to Philosophy (GRW) or equiv.**	PHI 2010	3
Physics for Engineers 2	PHY 2044	3
General Physics 2 Lab	PHY 2049L	1

Second Year, Spring (15 credits)		
Strength of Materials	EGN 3331	3
Engineering Thermodynamics	EGN 3343	3
Computer Applications in Engineering	EGN 2213	3
Engineering Mathematics 1	MAP 3305	3
Foundations of Society and Huma course**	an Behavior	3

Third Year, Fall (15 credits)		
Electro-Mechanical Devices	EGM 4045	3
Dynamics	EGN 3321	3
Fluid Mechanics	EML 3701	3
Computer Applications in Mechanical Engineering 2	EML 4534	3
History of Civilization 1 (GRW) or	WOH 2012	3

equiv**	

Third Year, Spring (15 credits)		
Dynamic Systems	EGN 4432	3
Heat Transfer	EML 4142	3
Finite Element Analysis for Engineering Design	EGM 4350	3
Foundations of Creative Expression cour		3
Foundations of Society and Humar course**	n Behavior	3

Third Year, Summer (12 credits)		
Probability and Statistics for Engineers	STA 4032	3
Vibration Synthesis and Analysis	EGN 4323	3
Technical Elective		3
Foundations of Creative Expression co	ourse**	3

Fourth Year, Fall (15 credits)		
Engineering Materials 1	EGN 3365	3
Experimental Methodology	EML 3523C	3
Applied Thermal Fluid Engineering	EML 4127	3
Machine Design 1	EML 4500	3
Engineering Design	EML 4521C	3

Fourth Year, Spring (14 credits)		
Machine Design 2	EML 4262	3
Design Project	EML 4551	3
Mechanical Engineering Lab	EML 4730L	3
Technical Electives		5
Total		128

<sup>\*</sup> Course meets Writing Across Curriculum (Gordon Rule) requirements.

<sup>\*\*</sup> Courses may be selected from the appropriate portion of the <a href="Intellectual Foundations Program">Intellectual Foundations Program</a>.

Approved by:	Date:
Department Chair: Much Wee	10-8-15
College Curriculum Chair:	10/02/2017
College Dean: College Dean:	10/06/2015
UUPC Chair:	11/2/12
Undergraduate Studies Dean:	13115
UFS President:	
Provost:	
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