

**UNDERGRADUATE SAMPLE 4-YEAR PROGRAM OF STUDY
FOR THE BACHELOR OF SCIENCE DEGREE (as of Fall 09) ***

<i>Subjects</i>	<i>Course No.</i>	<i>Credits</i>
<u>FIRST YEAR, FALL</u> (14 TOTAL CREDITS):		
College Writing I**	ENC 1101	3
Calculus for Engineers I	MAC 2253	4
General Chemistry I	CHM 2045	3
General Chemistry I Lab	CHM 2045L	1
Fundamentals of Engineering	EGN 1002	3
<u>FIRST YEAR, SPRING</u> (14 TOTAL CREDITS):		
College Writing II**	ENC 1102	3
Calculus for Engineers II	MAC 2254	4
Engineering Graphics	EGS 1111C	3
Physics for Engineers I	PHY 2043	3
General Physics I Lab	PHY 2048L	1
<u>SECOND YEAR, FALL</u> (14 TOTAL CREDITS):		
Statics	EGM 3510	3
Physics for Engineers II	PHY 2044	3
General Physics II Lab	PHY 2049L	1
Calculus with Analytic Geometry III	MAC 2313	4
Intro to Philosophy (WAC)***	PHI 2010	3
<u>SECOND YEAR, SPRING</u> (15 TOTAL CREDITS):		
Engineering Mathematics I	MAP 3305	3
Computer Applications in ME I	EML 2538	3
Thermodynamics 1	EML 3100	3
Strength of Materials	EGM 3524	3
Found of Society & Human Behavior****		3
<u>THIRD YEAR, FALL</u> (15 TOTAL CREDITS):		
Dynamics	EGM 3400	3
Electro-Mechanical Devices	EGM 4045	3
Fluid Mechanics	EML 3701	3
Computer Applications in ME 2	EML 4534	3
History of Civilization 1 (WAC)***	WHO 2012	3

THIRD YEAR, SPRING (15 TOTAL CREDITS):

Heat Transfer	EML 4142	3
System Dynamics	EML 4380	3
Technical Elective		3
Found of Society & Human Behavior****		3
Found of Creative Expression*****		3

THIRD YEAR, SUMMER (12 TOTAL CREDITS):

Probability & Statistics for Engineers	STA 4032	3
Technical Elective		3
Technical Elective		3
Found of Creative Expression*****		3

FOURTH YEAR, FALL (15 TOTAL CREDITS):

Engineering Materials I	EGM 3521	3
Applied Thermal Fluid Engineering	EML 4127	3
Machine Design I	EML 4500	3
Engineering Design	EGN 4521C	3
Experimental Methodology	EML 3523C	3

FOURTH YEAR, SPRING (14 TOTAL CREDITS):

Machine Design II	EML 4262	3
Design Project	EML 4551	3
Mechanical Engineering Laboratory	EML 4730L	3
Technical Electives		5

Total

128 Credits

* This is a sample program of study based on full-time enrollment of between 14 and 15 credit hours per semester. There is no guarantee that a course will be offered in a particular semester.

** Courses that meet the Gordon Rule for Foundations of Written Communication. The following may be substituted for ENC 1102:

- o Cultural Difference in a Global Society ANT 1471
- o Being Cared For NUR 1016

*** Foundations in Global Citizenship

**** Foundations of Society & Human Behavior (6 credits, two courses from two different departments) must be chosen from the following:

- o Introduction to Anthropology ANT 2000 (3)
or Culture and Society ANT 2410 (3)
- o Microeconomic Principles ECO 2023 (3)
or Macroeconomic Principles ECO 2013 (3)
- o Contemporary Economic Issues ECP 2002 (3)
- o Changing Environment of Society, Business and Government PAD 2258 (3)
- o Government of the U.S. POS 2041 (3)

- General Psychology PSY 1012 (3)
- Sociological Perspectives SYG 1000 (3)
or Social Problems SYG 2010 (3)
- Environment and Society EVR 2017 (3)
- Designing the City URP 2051 (3)

***** Foundations of Creative Expression must be chosen from among the following (6 credits, two courses from two different departments):

- Art Appreciation ARH 2000 (3)
- History and Appreciation Music MUL 2010 (3)
- Appreciation of Theatre THE 2000 (3)
- Appreciation of Dance DAN 2100 (3)
- Film Appreciation FIL 2000 (3)
- Culture and Architecture ARC 2208 (3)
- Interpretation of Fiction LIT 2010 (3) (GR)
- Interpretation of Poetry LIT 2030 (3) (GR)
- Interpretation of Drama LIT 2040 (3) (GR)
- Global Great Books: Travel Tales LIT 2103 (3)

Updated: 10/09