Pre-Engineering Adviser's Data Sheet

Name of Student_____ **High School**_____
Home Address _____ **ACT (Composite Score)**_____
_____ **Engineering field**_____

Pre-Engineering Curriculum for all fields except Chemical
Option 1: Beginning with Calculus I

MAT 2170 **MAT 2550** **MAT 1441G** **MAT 2442** **MAT 2443** **MAT 3501**	**4** **3** **5** **5** **4** **3**	**Students entering with mathematical deficiencies may need to enroll in MAT 1330 (Trigonometry) and/or MAT 1400 (Pre-calculus). MAT 2550 (Linear Algebra) is strongly recommended.**	**PHY1000** **PHY1351G** **PHY1352G** **PHY1361** **PHY1362** **PHY1371** **PHY1372** **PHY2390** **PHY2400** **PHY3270**	**0** **3** **1** **3** **1** **3** **1** **3** **3** **4**	**All pre-engineering students are required to enroll in PHY 1000 every semester. PHY 2390 and 2400 are not required in Chemical, Electrical and Computer Engineering; however, PHY 2390 and 2400 are strongly recommended for Electrical and Computer Engineering.**
CHM 1310G **CHM 1315G** **CHM 1410** **CHM 1415**	**3** **1** **3** **1**	**At UIUC, CHM 1410 & 1415 is not required for ECE, CS, GE & Nuc.E, but will count as a technical elective.**	**ENG 1001G** **ENG 1002G**	**3** **3**	
INT 2043	**3**	**Not required in Electrical, Computer, or Chemical Engineering.**			

***A total of 18 hours of humanities, social sciences, and fine arts is required and may be taken at either institution. Courses should be selected in consultation with an advisor.**

**** All transfer students to UIUC must have completed the equivalent of the intermediate level (or 3 high school years) of a single foreign language with a grade of C or better.**

Option 1: Most intense, but quickest

FRESHMAN YEAR				
Fall Semester			**Spring Semester**	
PHY 1000, Engineering Seminar	**0**		**PHY 1000, Engineering Seminar**	**0**
ENG 1001G, Composition	**3**		**ENG 1002G, Literature**	**3**
MAT 1441G, Calculus 1	**5**		**MAT 2442, Calculus 2**	**5**
PHY 1351G, Mechanics	**3**		**PHY 1361, Thermo/Electricity/Magnetism**	**3**
PHY 1352G, Lab I	**1**		**PHY1362, Lab II**	**1**
CHM 1310G, Chemistry 1	**3**		**CHM 1410, Chemistry 2**	**3**
CHM1315G, Chemistry 1 Lab	**1**		**CHM 1415, Chemistry 2 Lab**	**1**
	16			**16**
SOPHOMORE YEAR				
Fall Semester			**Spring Semester**	
PHY 1000, Engineering Seminar	**0**		**PHY 1000, Engineering Seminar**	**0**
MAT 2443, Calculus 3	**4**		**MAT 3501, Differential Equations**	**3**
PHY 1371, Waves/Sound/Optics/Modern	**3**		**PHY 2400, Dynamics**	**3**
PHY 1372, Lab III	**1**		**PHY 3270, Circuit Analysis**	**4**
PHY 2390, Statics	**3**		**INT 2043, Engineering Graphics**	**3**
MAT 2170, Java	**4**		**Social Science, Humanities, or Fine Arts (G)**	**3**
Social Science, Humanities, or Fine Arts (G)	**3**			
	18			**16**

9-20-2008

Pre-Engineering Adviser's Data Sheet

Name of Student_____ **High School**_____
Home Address _____ **ACT (Composite Score)**_____
_____ **Engineering field**_____

Option 2: Pre-Engineering Curriculum with math review
For all fields except Chemical

MAT 2170 MAT 2550 MAT 1441G MAT 2442 MAT 2443 MAT 3501	4 3 5 5 4 3	Students entering with mathematical deficiencies may need to enroll in MAT 1330 (Trigonometry) and/or MAT 1400 (Precalculus). MAT 2550 (Linear Algebra) is strongly recommended.	PHY1000 PHY1351G PHY1352G PHY1361 PHY1362 PHY1371 PHY1372 PHY2390 PHY2400 PHY3270	0 3 1 3 1 3 1 3 3 4	All pre-engineering students are required to enroll in PHY 1000 every semester. PHY 2390 and 2400 are not required in Chemical, Electrical and Computer Engineering; however, PHY 2390 and 2400 are strongly recommended for Electrical and Computer Engineering.
CHM 1310G CHM 1315G CHM 1410 CHM 1415	3 1 3 1	At UIUC, CHM 1410 & 1415 is not required for ECE, CS, GE & Nuc.E, but will count as a technical elective.	ENG 1001G ENG 1002G	3 3	
INT 2043	3	Not required in Electrical, Computer, or Chemical Engineering.			

***A total of 18 hours of humanities, social sciences, and fine arts is required and may be taken at either institution. Courses should be selected in consultation with an advisor.**

**** All transfer students to UIUC must have completed the equivalent of the intermediate level (or 3 high school years) of a single foreign language with a grade of C or better.**

Option 2: With Math Review

FRESHMAN YEAR				
Fall Semester			**Spring Semester**	
PHY 1000, Engineering Seminar	0		PHY 1000, Engineering Seminar	0
ENG 1001G, Composition	3		ENG 1002, Literature	3
MAT 1400, Precalculus	3		MAT 1441G, Calculus I	5
MAT 1330, Trigonometry	2		PHY 1351G, Mechanics	3
CHM 1310G, Chemistry 1	3		PHY1352G, Lab I	1
CHM1315G, Chemistry 1 Lab	1		CHM 1410, Chemistry 2	3
Social and Behavioral (G)	3		CHM 1415, Chemistry 2 Lab	1
	15			16
SOPHOMORE YEAR				
Fall Semester			**Spring Semester**	
PHY 1000, Engineering Seminar	0		PHY 1000, Engineering Seminar	0
MAT 2442, Calculus 2	5		MAT 2443, Calculus 3	3
PHY 1361, Thermo/Electricity/Magnetism	3		PHY 1371, Waves/Sound/Optics/Modern	3
PHY 1362, Lab II	1		PHY 1372, Lab III	1
MAT 2170, Java	4		INT 2043, Engineering Graphics	3
Social and Behavioral (G)	3		Social and Behavioral (G)	3
			Fine Arts (G)	3
	16			16
JUNIOR YEAR				
Fall Semester			**Spring Semester**	
PHY 1000, Engineering Seminar	0		PHY 1000, Engineering Seminar	0
PHY 2390, Statics	3		PHY 2400, Dynamics	3
MAT 3501, Differential Equations	3		PHY 3270, Circuit Analysis	4
MAT 2550, Linear Algebra	3		Humanities or Fine Arts (G)	3
Humanities (G)	3			3
	12			13

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PRE-CHEMICAL ENGINEERING CURRICULUM (2-2)

FRESHMAN YEAR				
Fall Semester			**Spring Semester**	
PHY 1000, Engineering Seminar	0		PHY 1000, Engineering Seminar	0
ENG 1001G, Composition	3		ENG 1002G, Literature	3
MAT 1441G, Calculus 1	5		MAT 2442, Calculus 2	5
PHY 1351G, Mechanics	3		PHY 1361, Thermo/Electricity/Magnetism	3
PHY 1352G, Lab I	1		PHY 1362, Lab II	1
CHM 1310G, Chemistry 1	3		CHM 1410, Chemistry 2	3
CHM1315G, Chemistry 1 Lab	1		CHM 1415, Chemistry 2 Lab	1
	16			16
SOPHOMORE YEAR				
Fall Semester			**Spring Semester**	
PHY 1000, Engineering Seminar	0		PHY 1000, Engineering Seminar	0
MAT 2443, Calculus 3	4		MAT 3501, Differential Equations	3
CHM 2440, Organic Chemistry 1	4		**CHM 2310, Inorganic Chemistry 1	3
CHM 2445, Organic Lab	1		CHM 2840, Organic Chemistry 2	3
PHY 1371, Waves/Sound/Optics/Modern	3		CHM 2845, Organic Chemistry 2 Laboratory	1
PHY 1372, Lab III	1		MAT 2170, Java	4
Social Science, Humanities, or Fine Arts (G)	3		Social Science, Humanities, or Fine Arts (G)	3
	16			17

****CHM 2730 (Quantitative Analysis) may be substituted for CHM 2310. A total of 18 hours of approved social sciences and humanities electives is required. Courses should be selected in consultation with an advisor.**