

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	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. UIUC will require that you take it there if you do not take it at EIU.	PHY1000	0	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.
MAT 2550	3		PHY1351	3	
MAT 1441	5		PHY1352	1	
MAT 2442	5		PHY1361	3	
MAT 2443	4		PHY1362	1	
MAT 3501	3		PHY1371	3	
		PHY1372	1		
		PHY2390	3		
		PHY2400	3		
		PHY3270	4		
CHM 1310	3	At UIUC, CHM 1410 & 1415 is not required for ECE, CS, GE & Nuc.E, but will count as a technical elective.	ENG 1001	3	
CHM 1315	1		ENG 1002	3	
CHM 1410	3				
CHM 1415	1				
INT 2043	3	Not required in Electrical, Computer, or Chemical Engineering.			

*A total of 18 hours of humanities and social sciences 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.

07-18-2007

Option 1: Most intense, but quickest

FRESHMAN YEAR			
Fall Semester		Spring Semester	
PHY 1000, Engineering Seminar	0	PHY 1000, Engineering Seminar	0
ENG 1001, Composition	3	ENG 1002, Literature	3
MAT 1441, Calculus 1	5	MAT 2442, Calculus 2	5
PHY 1351, Mechanics	3	PHY 1361, Thermo/Electricity/Magnetism	3
PHY 1352, Lab I	1	PHY1362, Lab II	1
CHM 1310, Chemistry 1	3	CHM 1410, Chemistry 2	3
CHM1315, 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 1043, Engineering Graphics	3
MAT 2170, Java	3	Social Science or Humanities	3
Social Science or Humanities	3		
	17		16

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	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. UIUC will require that you take it there if you do not take it at EIU.	PHY1000	0	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.
MAT 2550	3		PHY1351	3	
MAT 1441	5		PHY1352	1	
MAT 2442	5		PHY1361	3	
MAT 2443	4		PHY1362	1	
MAT 3501	3		PHY1371	3	
		PHY1372	1		
		PHY2390	3		
		PHY2400	3		
		PHY3270	4		
CHM 1310	3	At UIUC, CHM 1410 & 1415 is not required for ECE, CS, GE & Nuc.E, but will count as a technical elective.	ENG 1001	3	
CHM 1315	1		ENG 1002	3	
CHM 1410	3				
CHM 1415	1				
INT 1043	3	Not required in Electrical, Computer, or Chemical Engineering.			

*A total of 18 hours of humanities and social sciences 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.

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Option 2: With Math Review

FRESHMAN YEAR				
Fall Semester			Spring Semester	
PHY 1000, Engineering Seminar	0		PHY 1000, Engineering Seminar	0
ENG 1001, Composition	3		ENG 1002, Literature	3
MAT 1400, Precalculus	4		MAT 1440, Calculus I	3
MAT 1330, Trigonometry	2		PHY 1351, Mechanics	3
CHM 1310, Chemistry 1	3		PHY1352, Lab I	1
CHM1315, Chemistry 1 Lab	1		CHM 1410, Chemistry 2	3
Social Science or Humanities	3		CHM 1415, Chemistry 2 Lab	1
	16			14
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	3		INT 1043, Engineering Graphics	3
Social Science or Humanities	3		Social Science or Humanities	3
	15		Social Science or Humanities	3
				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		Social Science or Humanities	3
Social Science or Humanities	3			