

# Pre-Engineering Adviser's Data Sheet

Name of Student \_\_\_\_\_

Engineering Field \_\_\_\_\_

## Pre-Engineering Curriculum for all fields except Chemical

### Option 1: Beginning with Calculus I

CSM 2170	4	Students entering with mathematical deficiencies may need to enroll in MAT 1410 (Precalculus & Trigonometry), MAT 1271 (College Algebra), and MAT 1270 (Intermediate Algebra) or MAT 2250G (Elementary Statistics). MAT 2550 (Linear Algebra) is strongly recommended.	PHY 1001	1	
MAT 2550	3		PHY 1351G (1391G)	3	
MAT 1441G	5		PHY 1352G (1392G)	1	
MAT 2442	5		PHY 1361	3	
MAT 2443	4		PHY 1362	1	
MAT 3501	3		PHY 1371	3	
			PHY 1372	1	
			PHY 2390	3	
			PHY 2450	3	
			PHY 3150	4	
CHM 1310G	3		ENG 1001G	3	
CHM 1315G	1		ENG 1002G	3	
CHM 1410	3				
CHM 1415	1				
EGT 2043	3		EEN 1100	3	Not required or recommended for transferring to UIUC.
			EEN 1101	1	

\*For transferring to UIUC College of Engineering, check Grainger College of Engineering Transfer Handbook for major-specific requirements and recommendations.

### Option 1: Most intense, but quickest

FRESHMAN YEAR					
Fall Semester			Spring Semester		
ENG 1001G Composition 1	3		PHY 1001 Intro to Physics & Engineering	1	
MAT 1441G Calculus 1	5		ENG 1002G Composition 2	3	
PHY 1351G (1391G) Mechanics	3		MAT 2442 Calculus 2	5	
PHY 1352G (1392G) Lab I	1		PHY 1361 Thermo/Electricity/Magnetism	3	
CHM 1310G Chemistry 1	3		PHY 1362 Lab II	1	
CHM 1315G Chemistry 1 Lab	1		CHM 1410 Chemistry 2	3	
Social Science Humanities, or Fine Arts (G)	3		CHM 1415 Chemistry 2 Lab	1	
	19			17	
SOPHOMORE YEAR					
Fall Semester			Spring Semester		
MAT 2443 Calculus 3	4		MAT 3501 Differential Equations	3	
PHY 1371 Waves/Sound/Optics/Modern	3		PHY 2450 Dynamics	3	
PHY 1372 Lab III	1		EGT 2043 Computer Aided Engineering Drawing	3	
PHY 2390 Statics	3		MAT 2550 Linear Algebra	3	
CSM 2170 Computer Science I	4		EEN 1100	3	
PHY 3150 Electronics	4		EEN 1101	1	
			Social Science, Humanities, or Fine Arts (G)	3	
	19			19	

# Pre-Engineering Adviser's Data Sheet

Name of Student \_\_\_\_\_ Engineering Field \_\_\_\_\_

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

CSM 2170	4	Students entering with mathematical deficiencies may need to enroll in MAT 1410 (Precalculus & Trigonometry), MAT 1271 (College Algebra), and MAT 1270 (Intermediate Algebra) or MAT 2250G (Elementary Statistics). MAT 2550 (Linear Algebra) is strongly recommended.	PHY 1001	1	
MAT 2550	3		PHY 1351G (1391G)	3	
MAT 1441G	5		PHY 1352G (1392G)	1	
MAT 2442	5		PHY 1361	3	
MAT 2443	4		PHY 1362	1	
MAT 3501	3		PHY 1371	3	
			PHY 1372	1	
			PHY 2390	3	
			PHY 2450	3	
			PHY 3150	4	
CHM 1310G	3		ENG 1001G	3	
CHM 1315G	1		ENG 1002G	3	
CHM 1410	3				
CHM 1415	1				
EGT 2043	3		EEN 1100	3	Not required or recommended for transferring to UIUC.
			EEN 1101	1	

\*For transferring to UIUC College of Engineering, check Grainger College of Engineering Transfer Handbook for major-specific requirements and recommendations.

## Option 2: With Math Review

FRESHMAN YEAR					
Fall Semester			Spring Semester		
ENG 1001G Composition 1	3		ENG 1002G Composition 2	3	
MAT 1410 Precalculus & Trigonometry	4		MAT 1441G Calculus 1	5	
CHM 1310G Chemistry 1	3		PHY 1351G (1391G) Mechanics	3	
CHM 1315G Chemistry 1 Lab	1		PHY 1352G (1392G) Lab I	1	
Social Science, Humanities, or Fine Arts (G)	3		CHM 1410 Chemistry 2	3	
			CHM 1415 Chemistry 2 Lab	1	
	14			16	
SOPHOMORE YEAR					
Fall Semester			Spring Semester		
MAT 2442 Calculus 2	5		PHY 1001 Intro to Physics & Engineering	1	
PHY 1371 Waves/Sound/Optics/Modern	3		MAT 2443 Calculus 3	3	
PHY 1372 Lab III	1		PHY 1361 Thermo/Electricity/Magnetism	3	
CSM 2170 Computer Science I	4		PHY 1362 Lab II	1	
Social Science, Humanities, or Fine Arts (G)	3		EGT 2043 Computer Aided Engineering Drawing	3	
			MAT 3501 Differential Equations	3	
	16			14	
JUNIOR YEAR					
Fall Semester			Spring Semester		
PHY 2390 Statics	3		PHY 2450 Dynamics	3	
PHY 3150 Electronics	4		EEN 1100	3	
MAT 2550 Linear Algebra	3		EEN 1101	1	
Social Science, Humanities, or Fine Arts (G)	3		Social Science, Humanities, or Fine Arts (G)	3	
			Social Science, Humanities, or Fine Arts (G)	3	
	13			13	

