Engineering Physics (3-2) B.S. Adviser's Data Sheet
(3 years at EIU, followed by 2 years at UIUC or SIUC)

Note: Completion of a B.S. in Engineering degree from institutions other than UIUC or SIUC may also be accepted. Please contact the Pre-Engineering Coordinator for information.

FRESHMAN YEAR (odd year fall, even year spring)				
Fall Semester			**Spring Semester**	
ENG 1001G, Composition I	**3**		**ENG 1002G, Literature**	**3**
MAT 1441G, Calculus I	**5**		**MAT 2442, Calculus II**	**5**
PHY 1351G, General Physics I	**3**		**PHY 1361, General Physics II**	**3**
PHY 1352G, General Physics I Lab	**1**		**PHY1362, General Physics II Lab**	**1**
CHM 1310G, General Chemistry I	**3**		**CHM 1410, Chemistry II**	**3**
CHM 1315G, General Chemistry I Lab	**1**		**CHM 1415, Chemistry II Lab**	**1**
	16		**PHY 1001, Intro to Physics & Engineering**	**1**
				17
SOPHOMORE YEAR (even year fall, odd year spring)				
Fall Semester			**Spring Semester**	
MAT 2443, Calculus III	**4**		**MAT 3501, Differential Equations I**	**3**
PHY 1371, General Physics III	**3**		**Humanities & Fine Arts (G)**	**3**
PHY 1372, General Physics III Lab	**1**		**PHY Elective**	**3**
CMN 1310G, Intro to Speech Communication	**3**		**CSM 2170, Computer Science I**	**4**
Social & Behavioral Sciences (G)	**3**		**PHY 2450, Classical Dynamics**	**3**
PHY 2390, Statics	**3**			
	17			**16**
JUNIOR YEAR (odd year fall, even year spring)				
Fall Semester			**Spring Semester**	
PHY elective (recommend _____)	**3-4**		**PHY 4712, Experimental Physics II**	**1**
Social & Behavioral Sciences (G)	**3**		**PHY Elective (Recommend _____)**	**4**
PHY 4711, Experimental Physics I	**3**		**Social & Behavioral Sciences (G)**	**3-4**
PHY 3150, Electronics	**1**		**Scientific Awareness, Biological Sciences (G)**	**3**
Humanities & Fine Arts (G)	**4**		**Humanities & Fine Arts (G)**	**3**
PHY 4000, Seminar in Physics	**1**		**PHY elective (Recommend _____)**	**3-4**
	16-17			**17-19**

***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.**
****The student must also submit 3 essays for the Electronic Writing Portfolio.**
*****One (G) course must have a focus on cultural diversity.**

Additionally, students must take 12 semester hours of Physics from the categories listed below. A limit of 3 hours of 4444, 4555, 4600, 4644 or 4800 may be counted toward the degree.

<u>At least one course from Category A:</u>	
PHY 3415	(4 SH; F even) Electricity & Magnetism I w/lab
PHY 4855	(3 SH; F odd) Quantum Mechanics
<u>At least one course from Category B:</u>	
PHY 3350	(3 SH; On Demand) Introduction to Solid State Physics
PHY 4320	(4 SH; S even) Computational Physics
PHY 4470	(4 SH; F even) Optics
PHY 4750	(3 SH; F odd) Thermodynamics & Statistical Mechanics
PHY 4780	(3 SH; S odd) Introduction to Plasma Physics
<u>Category C:</u>	
PHY 3150	(4 SH; F) Electronics
PHY 3270	(4 SH; S) Introduction to Circuit Analysis
PHY 3420	(4 SH; S odd) Electricity & Magnetism II
PHY 4100	(3 SH; S odd) Astrophysics
PHY 4444	(3 SH) Honors Independent Study
PHY 4555	(3 SH) Honors Research
PHY 4600	(3 SH) Research in Physics
PHY 4644	(3 SH) Honors Thesis
PHY 4800	(1-6 SH) Advanced Independent Study
PHY 4865	(3 SH; S even) Advanced Quantum Mechanics

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	16		PHY 1001, Intro to Physics & Engineering	1
				17
SOPHOMORE YEAR (odd year fall, even year spring)				
Fall Semester			**Spring Semester**	
MAT 2443, Calculus III	4		MAT 3501, Differential Equations I	3
PHY 1371, General Physics III	3		Humanities & Fine Arts (G)	3
PHY 1372, General Physics III Lab	1		PHY Elective	3
CMN 1310G, Intro to Speech Communication	3		CSM 2170, Computer Science I	4
Social & Behavioral Sciences (G)	3		PHY 2450, Classical Dynamics	3
PHY 2390, Statics	3			
PHY 4000, Seminar in Physics	1			16
	18			
JUNIOR YEAR (even year fall, odd year spring)				
Fall Semester			**Spring Semester**	
PHY elective (recommend _____)	3-4		PHY 4712, Experimental Physics II	1
Social & Behavioral Sciences (G)	3		PHY Elective (Recommend _____)	4
PHY 4711, Experimental Physics I	3		Social & Behavioral Sciences (G)	3-4
PHY 3150, Electronics	1		Scientific Awareness, Biological Sciences (G)	3
Humanities & Fine Arts (G)	4		Humanities & Fine Arts (G)	3
	15-16		PHY elective (Recommend _____)	3-4
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