PHYSICS AND ENGINEERING DEPARTMENT

FIRST YEAR ADVISING SHEET

Computer Engineering, Engineering *(with concentrations in Mechanical Engineering, Electrica Engineering, Applied Physics, or Sustainable Design)*, Physics, Physics-Secondary Education,
3+2 Engineering, and Industrial Engineering Management

For students whose math placement is MA121

FALL

Major	**PHY200**** (4 cr.) College Physics I	**MA121**** (4 cr.) Calculus I	**EGR100** (2 cr.) Introductiorto Engineering I	**CS121** (4 cr.) Computer Science I	**ED105** (3 cr.) Foundations of Education
Computer Engineering	R	R	R	*	
Engineering ME/EE/AP/SD	R	R	R	*	
Physics	R	R		*	
Physics – Secondary Education	‡	R		*	R
3+2 Engineering	R	R	R	*	
Industrial Engineering Management	R	R	R	*	

SPRING

Major	**PHY200**** (4 cr.) College Physics I	**PHY201** (4 cr.) College Physics II	**MA122** (4 cr.) Calculus II	**EGR110** (2 cr.) Introduction to Engineering II	**CS121** (4 cr.) Computer Science I	**CS122** (4 cr.) Computer Science II	**ED150** (3 cr.) Foundations of Education	**PSY105**** (4 cr.) General Psychology	
Computer Engineering		R	R	R	S	*			
Engineering ME/EE/AP/SD		R	R	R	S				
Physics		R	R		*				
Physics – Secondary Education	‡R	‡ (after PHY200)	R		*		R		
3+2 Engineering		R	R	R	R				
Industrial Engineering Management		R	R	R	*			*	

R=Required S=Suggested **Accepted for Core

* If comfortable with heavy load (we recommend 14 credits in the fall and 18 in the spring for most students)

‡ Physics - Secondary Education majors may take PHY200 in first semester (because of GPA requirements to remain in Education majors, it is often advisable to take PHY200 **after** completing MA121)

04/30/2012 JM

For students whose math placement is MA110

FALL

Major	Power of Language	MA110 (4 cr.) College Algebra and Trigonometry	EGR100 (2 cr.) Introduction to Engineering I	CS121 (4 cr.) Computer Science I		ED105 (3 cr.) Foundations of Education
Computer Engineering	S	R	R	R		
Engineering ME/EE/AP/SD	S	R	R	R		
Physics	S	R				
Physics – Secondary Education		R		S		R
3+2 Engineering	S	R	R	S		
Industrial Engineering Management	S	R	R	R		

SPRING

Major	PHY200** (4 cr.) College Physics I	MA121** (4 cr.) Calculus I	EGR110 (2 cr.) Introduction to Engineering II	CS121 (4 cr.) Computer Science I	CS122 (4 cr.) Computer Science II	ED150 (3 cr.) Foundations of Education	PSY105** (4 cr.) General Psychology
Computer Engineering	R	R	R				
Engineering ME/EE/AP/SD	R	R	R				
Physics	R	R		S			
Physics – Secondary Education	R	R				R	
3+2 Engineering	R	R	R				
Industrial Engineering Management	R	R	R				S

R=Required S=Suggested ** Accepted for Core

We recommend most students take 18 credits in the fall and 14 credits in the spring when placing into MA110.

3 + 2 ENGINEERING

A dual-degree major: BA in Engineering from Elizabethtown and BS in a specific engineering discipline, normally from Penn State, University Park (PSU) or the University of Maryland (UMD). Students study 3 years at Elizabethtown, earning approximately 100 credits while satisfying Elizabethtown Core and major requirements, and then normally 2 years at the cooperating institution (normally PSU or UMD).

Upon transfer, students study two years at cooperating college and earn approximately 60 credits required by the specific department into which the student transferred. The Elizabethtown degree is awarded upon transfer of sufficient credits to Elizabethtown so that total credit count is 125 or more. At Elizabethtown students must earn grades of C or better (C- does not qualify) in PHY 200, CH 105, MA 121, and MA 122 to be eligible to complete dual-degree.

Elizabethtown has an articulation agreement with PSU stipulating that a student achieving an Elizabethtown cumulative GPA of 3.0 or better is normally guaranteed admittance into the PSU department of the student's choosing. However, PSU has recently established "Enrollment Control" for many departments.

See http://www.engr.psu.edu/advisingcenter/ControlledMajors/default.aspx. Contact Dr. Scanlin or Dr. Wunderlich regarding changes to Enrollment Controls.

The University of Maryland does not have any enrollment controls.

NOTES

Dr. Scanlin and Dr. Wunderlich in the Physics and Engineering Department help create first-semester freshman schedules. All FYS advisors should consult them with any questions.

Engineering majors should refer to the college catalog regarding specific core exceptions to each Engineering major.

Students with computer experience should discuss with Dr. Leap (*Computer Science Department*) the advisability of enrolling in a higher-numbered computer science course in place of CS121.