B.S. in ENGINEERING: **MECHANICAL ENGINEERING**

2017-2018

Name **West Chester 3+2**   ID# _____

Fall 1 - 17-18 cr

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
FYS-100	Pathways Seminar		1		waived	
	(Not required for transfer students)					
WRIT-101	Writing Seminar I: Written Communication		3 ■		TR	WRIT120,220
MATH-111	Calculus I		4 ■		TR	MAT161
CHEM-103/103L	Chemistry I w/ Lab		4 ■		TR	CHE103,CRL103
ENGR-101	Introduction to Engineering		3 ■		TR	PHY115
ENGR-104	Introduction to Computing		3 ■		TR	CSC141

Spring 1 - 17 cr

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.	
DBTU-114	Debating U.S. Issues		3 ■		TR	HIS100,151, 152	
MATH-112	Calculus II	(MATH-111)	4 ■		TR	MAT162	
PHYS-201/201L	Physics I w/ Lab	(pre- or co-requisite MATH-112)	4 ■		TR	PHY170	
ENGR-102	Engineering Drawing	(MATH-102 or MATH-111)	3 ■		TR	PHY116	
DECGEN200	Innovation Essentials		3 ☐ C		_____		1

Fall 2 - 17 cr

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
ADIV-2( )	American Diversity	(WRIT-101, DBTU-114)	3 ■		TR	PSY100.PSC101, PSC343
PHYS-203/203L	Physics II w/ Lab	(PHYS-201/201L)	4 ■		TR	PHY180, PHI101
MATH-213	Calculus III	(MATH-112)	4 ■		TR	MAT261
ENGR-215	Engineering Statics	(PHYS-201/201L; pre- or co-requisite MATH-213)	3 ■		TR	PHY260
Elective	(DECGEN200 agreement)		3 ■		TR	3 cr "other"

Spring 2 - 16 cr

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.	
WRIT-202	Writing Seminar II: Multi-media Communication	(WRIT-101)	4 ☐		_____		2
	WRIT 202 is for transfer students (4 cr)						
MATH-225	Differential Equations	(MATH-213)	3 ■		TR	MAT343	
ENGR-218	Engineering Dynamics	(ENGR-215; pre or co-requisite MATH-225)	3 ■		TR	PHY300	
ENGR 301	Mechanics of Materials	(ENGR-215)	3 ☐		_____		3
DECSYS-20( )	Systems: (Select one DECSYS)		3 ☐ C		_____		4

Fall 3 - 15 cr

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.	
GDIV/GCIT-2( )	Global Diversity ....or.... Global Citizenship	(WRIT-101, DBTU-114)	3		TR	ECO111, any foreign language, HIS100, HIS101, HIS102	
	(Includes World Language at any level)						
ENGR-311	Fluid Mechanics	(ENGR-218, PHYS203/203L)	3 ☐		_____		5
ENGR-305	Engineering Statistics I	(MATH 112)	3 ☐		_____		6
ENGR-322	Fund. of Electrical Engineering I	(PHYS-203/203L)	3 ■		TR	PHY330	
MENGR 407	Thermodynamics and Heat Transfer I	(PHYS-201/201L, MATH-112)	3 ■		TR	PHY350	

Spring 3 - 16 cr

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.	
DBTG-300	Debating Global Issues	(WRIT-2XX; GDIV-2XX or GCIT-2XX)	3 ■		TR	WRT200,204,206	
ENGR-314	Numerical Methods for Engineers	(MATH-225, ENGR-104)	3 ☐		_____		7
ENGR-308	Integrated Engr Product Dev	(MATH-112, ENGR-104, ENGR-102)	3 ☐		_____		8
ENGR-210	Introduction to Materials Science	(MATH-111, CHEM-103/103L)	3 ☐		_____		9
MENGR-301	Machine Design	(ENGR-215)	3 ☐		_____		10
ENGR-399M	Junior MENGR Semr	(pre/co-requisite ENGR311, MENGR301, MENGR407)	1 ☐		_____		

Fall 4 - 15 cr

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.	
ETHIC-2( )	Ethics	(WRIT-101, DBTU-114)	3 ■		TR	PHI101, PHI180	
** ENGR-498	Senior Design Project I	(ENGR311, MENGR301, MENGR407)	3 ☐		_____		12
ENGR-302	Design for Manufacturability	(ENGR-102)	3 ☐		_____		13
MENGR-427	System Dynamics and Control	(ENGR-218)	3 ☐		_____		14
DECMTHD-300	ISEM: Ethno Research Methods	(WRIT-2XX; GDIV-2XX or GCIT-2XX)	3 ☐ C		_____		15

Spring 4 - 15 cr

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.	
HALLMK-499	Capstone Folio Workshop		3 ☐		_____		16
	(ETHIC-2XX, ADIV-2XX, GCIT-2XX or GDIV-2XX, DBTG-300, DECMTHD300, Sci Undstg, MATH111)						
ENGR-303	Engineering Economics	(ENGR-305)	3 ☐ C		_____		11
MENGR-405	Introduction to Mechatronics	(ENGR-322)	3 ☐ C		_____		17
** ENGR-499	Senior Design Project II	(ENGR399M, ENGR 498)	3 ☐ C		_____		18
MENGR-428	Thermodynamics II	(MENGR-407)	3 ☐		_____		19

TOTAL CREDITS: 128 credits

** Satisfies DEC capstone requirement
C Satisfies Hallmarks folio requirement

Introductory and Fundamentals Courses: (MATH-099 does **not** count toward graduation requirements. However, WRTG-100 and ITXA-100 can only be used in a free elective capacity.

			Cr	
MATH-099	Fundamentals of College Mathematics	(must earn C or better)	3 ☐	_____
MATH-110 or -102	Pre-calculus	(Does not count toward degree requirements)	3 ☐	

Surplus credits not used toward degree requirements

_____
_____
_____
_____
_____

Please note Philadelphia University residency requirement:
Philadelphia University has a residency requirement of 60 credits for Day Division students. Students must take a minimum of 60 credits –
12 credits must be within the major core; 9 credits must be in Hallmark courses in order to be eligible for a B.S. degree.

This form should be used as a worksheet in conjunction with the catalog and the Hallmark "menu" of options. Please refer to the
Philadelphia University catalog for questions regarding curriculum and academic policies.

COURSE STATUS: ☑ = course to take next semester   ☒ = course currently being taken   ■ = course completed