THOMAS JEFFERSON UNIVERSITY

BACHELOR of SCIENCE in ENGINEERING: MECHANICAL ENGINEERING

2022-2023

Name		Campus key				
LEVEL I (FIRST YEAR) -	- 35-36 credits	(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
Hallmark Courses - 2	23-24 credits					
FYS-100	Pathways Seminar		1			
	(Not required for transfer students)	on.	2 /			
WRII-101/ G/ S	(WRIT-100 may only be used to satisfy free elective credits)			<u> </u>		
AMST-114	Topics in American Studies		3			
CHEM-103/103L	Chemistry I w/ Lab		4			
PHYS-201/201L	Physics I w/ Lab	(pre-or co-requisite MATH-112)	4			<u></u>
MΔTH_111		(MATH-110 Pre-Calculus for Sci. & Engr. may be	Δ			
MATH-112	Calculus II (spring)	required prior to taking MATH-111) (MATH-111)	4			
						-
DEC Core - 3 credits	Finding and Chaning Opportunity		2			
Engineering Courses	- 9 credits		3		1	-0
ENGR-101	Introduction to Engineering (Fall)		3			
ENGR-102	Engineering Drawing	(co-requisite MATH 102, MATH-110 or MATH-111)	3	<u> </u>		-
ENGR-104	Introduction to Computing		3			
LEVEL II (SECOND YEA	R) - 32-33 credits	(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
Hallmark Courses - (6-7 credits					
ADIV-2()	American Diversity	(WRIT-101, AMST-114)	3			
WRIT-201/202	Writing Seminar II: Multi-media Commu	unication (WRIT-101)	3-4			-
	(WRIT 202 is for transfer students [4 cr])					
DEC Core - 3 credits						
DECSYS-2()	Science	<u></u>	3			-, - <u></u>
Engineering, Science	e & Math Courses - 23 credits					
PHYS-203/203L	Physics II w/ Lab (Fall)	(PHYS-201/201L)	4			
MATH-213	Calculus III (Fall)	(MATH-112)	4			
ENGR-215	Engineering Statics (Fall) (MA	TH 111, PHYS-201/201L)	3			
ENGR 305	Engineering Statistics (Fall)	(MATH 112)	3			
MATH-225	= =	= = = = = = = = = = = = = = = = = = =	3	<u> </u>		
ENGR-218	Engineering Dynamics (Spring) (ENGR-215)	: MATH 112. PHYS 201/201L)	3			
ENGR-301	Mechanics of Materials (spring). (MATH 12	12,PHYS 201-201L, ENGR-215)	3			
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LEVEL III (THIRD YEAR)) - 30.5 credits	(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
Hallmark Courses - 3	3 credits					
GDIV/GCIT-2()	Global Diversityor Global Citizensh	ip (Spring) (WRIT-101 AMST-114)	3			
a=, ao =()	(Includes World Language at any level)		•			
Engineering Courses	- 27.5 credits					
ENGR-302	Design for Manufacturability (Fall)	(ENGR-102)	3	<u> </u>		
ENGR-311	Fluid Mechanics (Fall)	(ENGR-218)	3			
ENGR-322	Fund. of Elec. Engg. I (Fall). (MATH 111, N	/ATH 112, PHYS-203/203L)	3			
MENG-407	Thermodynamics(Fall)	(PHYS-201/201L, MATH-112)	3			
ENGR-308	Integrated Engr Product Dev (Spring)	(MATH-112,ENGR-104.ENGR-102)	3			====
ENGR-314	Numerical Methods for Engineers (Spring)	(MATH-225, ENGR-104)	3		-	-, <u></u>
ENGR-210	Introduction to Material Science (Spring)	(MATH-110 or 111, CHEM-103/103L)	3			
ENGR 405	Engineering Simulations	(ENGR 301	3			
MENG-301	Machine Design (Spring)	(ENGR-218, ENGR 301)	3			

LEVEL IV (FOURTH YEAR) - 30 credits

Sem.

Grade TR Equiv.

(Prerequisite) Cr

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Hallmark Course – 9 credits									
ETHC-2()	Ethics (Fall)	(WRIT-101, AMST-114)	3						
CGIS 300	Contemporary Global Issues (Fall)	(WRIT-20X; GDIV-2XX or GCIT-2XX)	3						
PHIL-499	Philosophies of the Good Life(Spring)		3						
DEC Core - 3 credits									
DECM-300	Ethnographic Research Methods (Fall)	(WRIT-20X; GDIV-2XX or GCIT-2XX)	3						
Engineering Courses - 18 credits									
MENG-427	System Dynamics and Controls (Fall)	(ENGR-311, ENGR-218, ENGR. 314)	3						
** ENGR-498	Senior Design Project I (Fall)	(MENG399 or ENGR399)	3						
ENGR-303	Engineering Economics (spring)	(ENGR-305)	3			=====			
MENG-405	Introduction to Mechatronics (Spring)	(ENGR-322)	3						
MENG-428	Heat Transfer (Spring)	(MENG-407, ENGR 314)	3						
** ENGR-4XX	Senior Design Project II (Spring)	(ENGR-498)	3						
		тс	TAL	CREDITS:	127.5-129	.5			
** Satisfies DEC capstone requirement									
Introductory and Fundamentals Courses: (MATH-099 does not count toward graduation requirements. However, WRIT-100 and ITXA-									
100 can be used to	oward graduation credits in the free elective category.)								
MATH-09	9 Fundamentals of College Mathematics	(must earn C or better)	3						
MATH-110 or 10	2 Pre-calculus (Does not count toward degree requirements)		3						
Surplus credits not used toward degree requirements									

Please note Thomas Jefferson University residency requirement:

Thomas Jefferson 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 University catalog for questions regarding curriculum and academic policies.

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