THOMAS JEFFERSON UNIVERSITY

BACHELOR of SCIENCE in ENGINEERING: ENGINEERING

2023-2024

Name			ID#			
LEVEL I (FIRST YEAR) - 35-36 credits		(Prerequisite)		Sem.	Grade	TR Equiv.
Hallmark Courses - 2	23-24 credits					
FYS-100	Pathways Seminar		1			
	(Not required for transfer students)					
WRIT-101/G/S	Writing Seminar I: Written Communication		3-4			
AVIS-101	(WRIT-100 may only be used to satisfy free elect American Visions	ive credits)	3			
CHEM-103/103L						
PHYC-201/201L	Physics I w/ Lab (Spring)	(pre-or co-requisite MATH-112)		-		
MATH-111	<u> </u>	may be required prior to taking MATH-111)				
MATH-112	Calculus II (Spring)	(MATH-111)	4			
DEC Core - 3 credits						
DECF-102	Finding and Shaping Opportunity		3			
Engineering Courses						
ENGR-101	Introduction to Engineering (Fall)		3			
ENGR-104	Introduction to Computing					
ENGR-102	Engineering Drawing	co-requisite MATH-102, MATH-110 or MATH-111)				
LEVEL II (SECOND YEAR	R) - 32 credits	(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
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Hallmark Courses - 6			2	_		
ADIV-2() WRIT-201	American Diversity Writing Seminar II: Multi-media Communi	(WRIT-101, AVIS-101)				
WKII-201	whung Seminar II. Mulu-media Communi	(WRIT-101)	3			
DEC Core - 3 credits						
DECS-2()	Science: (Select one DECS)		3			
D200 2()	Colonido: (Goldat Gile Beas)		Ū			
Engineering Science	& Math Courses - 23 credits					
	Physics II w/ Lab (Fall)	(PHYC-201/201L)				
MATH-213	Calculus III (Fall)			-		
	, ,	(MATH-112)				
ENGR-215	Engineering Statics (Fall)	(PHYC-201/201L; MATH 111)	_			
ENGR 305	Engineering Statistics (Fall)	(MATH 112)	===			
MATH-225	Differential Equations (Spring)	(MATH-213)				
ENGR-218	Engineering Dynamics (Spring)	(ENGR-215; MATH-112, PHYC-201/201L)				
ENGR-301	Mechanics of Materials (spring)	(MATH-112, PHYC-201/201L, ENGR-215)	3	<u> </u>		
LEVEL III (THIRD YEAR)	- 30.5 credits	(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
GDIV/GCIT-2()	Global Diversity or Global Citizenship	(Fall) (WRIT-101, AVIS-101)	3			
abiv/abit-2()	(Includes World Language at any level)	(Pall) (WRII-101, AVIS-101)	3			
Engineering Courses						
ENGR-311	Fluid Mechanics (Fall)	(FNOD 240)	3			
ENGR-322	Fund. of Electrical Engineering I (Fall)	(ENGR-218) (MATH 111, MATH 112, PHYC-203/203L)			.,	
ENGR-210	Introduction to Material Science (Fall)	(CHEM-103/103L, MATH-110 or 111)			.,	
	04 Operations Research I (Fall)	(MATH-112, ENGR-305)	Ū			
	Designated Technical Elective (Fall)	(as appropriate)	3			
L` = = = = = = = = = =	Integrated Engr Product Dev (Spring)	(MATH-112,ENGR-104,ENGR-102)			====	====
ENGR-314	Numerical Methods for Engineers (Spring)	(MATH-112,ENGR-104,ENGR-104)		<u> </u>		
MENG-407	Thermodynamics (Spring)	(PHYC-201/201L, MATH-112)				
	Designated Technical Elective (Spring)	(as appropriate)		<u> </u>		
ENGR-405	Engineering Simulations (Spring)					
ı		(ENGR-301)				
ENGR-399	E Design Seminar (Spring) (pre/corequisite ENGR-311, EN	IGR-322, MENG-407, any 2 technical electives)	0.5	_		I

LEVEL IV (FOURTH YEA	R) - 30 credits	(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
Hallmark Course - 9	credits					
ETHC-2(Ethics (Fall)	(WRIT-101, AVIS-101)	3			
CGIS-300	Contemporary Global Issues (Fall)	(WRIT-201; GDIV-2XX or GCIT-2XX)			0	0
PHIL-499	Philosophies of the Good Life (Spring)		-		0	
	(ETHC-2XX, ADIV-2XX, GCIT-2XX or	GDIV-2XX, DECM-300, Sci Undstg, MATH-111)	-		1	TI.
DEC Core - 3 credits						
DECM-300	Ethnographic Research Methods (Fall)	(WRIT-201; GDIV-2XX or GCIT-2XX)	3			
Engineering Courses	- 18 credits		-		1	TI.
\$ \ \ ()	Designated Technical Elective (Fall)	(as appropriate)	3	<u> </u>		
** ENGR-498	Senior Design Project I (Fall)	(MENG-399 or ENGR-399)	_	<u> </u>	1	
ENGR-303	Engineering Economics (Spring)	(ENGR-305)	3		====	====
MENGR-405	Introduction to Mechatronics (spring)	(ENGR-322)	-		1	
\$ I()	Designated Technical Elective (spring)	(as appropriate)	-		7	
** ENGR-4XX	Senior Design Project II (spring)	(ENGR-498)	-			
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** Satisfies DEC capst	one requirement	K	JIAL	CKEDIIS.	127.0-120	6.0
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	entration: Select one four-course option for L	•				
	ng: TENG-306, TENG-308, TENG-310, TENG-3					
	ms Engineering: IENG-315, IENG-413, IENG eering: BP-402, BP-403, BP-404, BP-405	1-410, ENGR-307				
Dioprocess Engine	comig. Di 402, Di 403, Di 404, Di 403					
Custom: Any four	r designated technical elective courses from t	he above and/or ENGR 371 cou	ırse.			
		,				
Introductory and	Fundamentals Courses: (MATH-099 does not c	ount toward graduation requiremen	ts. Hov	wever, WRI	T-100 and	
ITXA-100 <u>can</u> be us	ed toward graduation credits in the free elective ca	tegory.)				
MATH-099	9 Fundamentals of College Mathematics	(must earn C or better)	3			
MATH-110 or -102	2 Pre-calculus (Does not count toward degree requirements)		3		ī-	
Surplus credits not us	sed toward degree requirements					
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Please note Thomas	s Jefferson University residency requirement:					
	Iniversity has a residency requirement of 60 credits	for Day Division students. Student	s mus	t take a mi	nimum of	
	dits must be within the major core; 9 credits must be	•				
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	e used as a worksheet in conjunction with the catak or questions regarding curriculum and academic po	-)115. P	icase reier	to the	
orniversity catalog it	or yaccarons regarding carriculant and academic po	moros.				
COURSE STA	ATUS: ☑ = course to take next semester	☑ = course currently being take	n 📮	l = course	complete	d
					15.5	