

THOMAS JEFFERSON UNIVERSITY  
BACHELOR of SCIENCE in ENGINEERING: ENGINEERING

2021-2022

Name \_\_\_\_\_

Campus Key \_\_\_\_\_

**LEVEL I (FIRST YEAR) – 35-36 credits** *(Prerequisite)* Cr Sem. Grade TR Equiv.

**Hallmark Courses – 23-24 credits**

FYS-100	Pathways Seminar <small>(Not required for transfer students)</small>		1	<input type="checkbox"/>			
WRIT-101/G/S	Writing Seminar I: Written Communication <small>(WRIT-100 may only be used to satisfy free elective credits)</small>		3-4	<input type="checkbox"/>			
<b>AMST-114</b>	<b>Topics in American Studies</b>		3	<input type="checkbox"/>			
CHEM-103/103L	Chemistry I w/ Lab (Fall)		4	<input type="checkbox"/>			
PHYS-201/201L	Physics I w/ Lab (Spring)	<small>(pre-or co-requisite MATH-112)</small>	4	<input type="checkbox"/>			
MATH-111	Calculus I (Fall)	<small>(MATH-110 Pre-calculus for Sci. &amp; Engr. may be required prior to taking MATH-111)</small>	4	<input type="checkbox"/>			
MATH-112	Calculus II (Spring)	<small>(MATH-111)</small>	4	<input type="checkbox"/>			

**DEC Core - 3 credits**

<b>DECF102</b>	<b>Finding and Shaping Opportunity</b>		3	<input type="checkbox"/>			
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**Engineering Courses – 9 credits**

ENGR-101	Introduction to Engineering (Fall)		3	<input type="checkbox"/>			
ENGR-104	Introduction to Computing		3	<input type="checkbox"/>			
ENGR-102	Engineering Drawing	<small>(co-requisite MATH-102, MATH-110 or MATH-111)</small>	3	<input type="checkbox"/>			

**LEVEL II (SECOND YEAR) – 32-33 credits** *(Prerequisite)* Cr Sem. Grade TR Equiv.

**Hallmark Courses – 6-7 credits**

ADIV-2( )	American Diversity	<small>(WRIT-101, AMST-114)</small>	3	<input type="checkbox"/>			
WRIT-201/202	Writing Seminar II: Multi-media Communication <small>(WRIT 202 is for transfer students [4 cr])</small>	<small>(WRIT-101)</small>	3-4	<input type="checkbox"/>			

**DEC Core - 3 credits**

DECSYS-2( )	Science: <small>(Select one DECSYS)</small>		3	<input type="checkbox"/>			
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**Engineering, Science & Math Courses – 23 credits**

PHYS-203/203L	Physics II w/ Lab (Fall)	<small>(PHYS-201/201L)</small>	4	<input type="checkbox"/>			
MATH-213	Calculus III (Fall)	<small>(MATH-112)</small>	4	<input type="checkbox"/>			
ENGR-215	Engineering Statics (Fall)	<small>(PHYS-201/201L; MATH 111)</small>	3	<input type="checkbox"/>			
MATH-225	Differential Equations (Spring)	<small>(MATH-213)</small>	3	<input type="checkbox"/>			
ENGR-218	Engineering Dynamics (Spring)	<small>(ENGR-215; MATH 112, PHYS 201/201L)</small>	3	<input type="checkbox"/>			
<b>ENGR-371</b>	<b>Special Topics</b>		3	<input type="checkbox"/>			
ENGR-301	Mechanics of Materials (Spring)	<small>(MATH 112, PHYS 201/201L, ENGR-215)</small>	3	<input type="checkbox"/>			

**LEVEL III (THIRD YEAR) - 30.5 credits** *(Prerequisite)* Cr Sem. Grade TR Equiv.

**Hallmark Courses – 3 credits**

GDIV/GCIT-2( )	Global Diversity...or...Global Citizenship (Spring)	<small>(WRIT-101, AMST-114)</small>	3	<input type="checkbox"/>			
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**Engineering Courses – 27.5 credits**

ENGR-305	Engineering Statistics (Fall)	<small>(MATH-112)</small>	3	<input type="checkbox"/>			
ENGR-311	Fluid Mechanics (Fall)	<small>(ENGR-218)</small>	3	<input type="checkbox"/>			
ENGR-322	Fund. of Electrical Engineering I (Fall)	<small>(MATH 111, MATH 112, PHYS-203/203L)</small>	3	<input type="checkbox"/>			
MENG-407	Thermodynamics (Fall)	<small>(PHYS-201/201L, MATH-112)</small>	3	<input type="checkbox"/>			
( )	Designated Technical Elective (Fall)	<small>(as appropriate)</small>	3	<input type="checkbox"/>			
ENGR-308	Integrated Engr Product Dev (Spring)	<small>(MATH-112, ENGR-104, ENGR-102)</small>	3	<input type="checkbox"/>			
ENGR-314	Numerical Methods for Engineers (Spring)	<small>(MATH-225, ENGR-104)</small>	3	<input type="checkbox"/>			
ENGR 210	Introduction to Material Science (Spring)	<small>(CHEM-103/103L, MATH-110 or 111)</small>	3	<input type="checkbox"/>			
.....or.....	ENGR-304 Operations Research I (Spring)	<small>(MATH-112, ENGR-305)</small>					
( )	Designated Technical Elective (Spring)	<small>(as appropriate)</small>	3	<input type="checkbox"/>			



*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.*

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**COURSE STATUS:**  = course to take next semester     = course currently being taken     = course completed

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