

THOMAS JEFFERSON UNIVERSITY  
BACHELOR of SCIENCE in ENGINEERING: ENGINEERING

2022-2023

Name \_\_\_\_\_

ID# \_\_\_\_\_

**LEVEL I (FIRST YEAR) – 34-35 credits** (Prerequisite) Cr Sem. Grade TR Equiv.

**Hallmark Courses – 22-23 credits**

|                 |  |   |                          |  |  |
|-----------------|--|---|--------------------------|--|--|
| FYS-100         | Pathways Seminar<br><small>(Not required for transfer students)</small>  | 1 | <input type="checkbox"/> |  |  |
| WRIT-101/101G   | Writing Seminar I: Written Communication<br><small>(WRITG-100 may only be used to satisfy free elective credits)</small> | 3 | <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"/> |  |  |
|----------------|--|---|--------------------------|--|--|

**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, DBTU-114)</small>                  | 3   | <input type="checkbox"/> |  |  |
| WRIT-201/202 | Writing Seminar II: Multi-media Communication <small>(WRIT-101)</small> | 3-4 | <input type="checkbox"/> |  |  |

(WRIT 202 is for transfer students [4 cr])

**DEC Core - 6 credits**

|             |   |   |                          |  |  |
|-------------|---|---|--------------------------|--|--|
| DECSYS-2( ) | Science: <small>(Select one DECSYS)</small> | 3 | <input type="checkbox"/> |  |  |
|-------------|---|---|--------------------------|--|--|

**Engineering, Science & Math Courses – 20 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"/> |  |  |
| ENGR 305      | Engineering Statistics (Fall) <small>(MATH 112)</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"/> |  |  |
| 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.

|                |   |   |                          |  |  |
|----------------|---|---|--------------------------|--|--|
| GDIV/GCIT-2( ) | Global Diversity...or...Global Citizenship <small>(WRIT-101, AMST114)</small> | 3 | <input type="checkbox"/> |  |  |
|----------------|---|---|--------------------------|--|--|

(Includes World Language at any level)

**Engineering Courses -**

|              |   |   |                          |  |  |
|--------------|---|---|--------------------------|--|--|
| 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"/> |  |  |
| MENGR-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>                 |   |                          |  |  |



*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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