

# Bachelor of Science - Industrial Technology

McCoy School of Engineering  
2025-2026

Rev. 2-19-24

## First Year

| Fall – 12 hours                                                                                           | Spring – 15 hours                                              | Summer |
|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--------|
| <b>Intro to Engineering</b> MENG 1101 (1)<br>Pre-req: None                                                | <b>Plane Trigonometry</b> MATH 1433 (3)<br>Pre-req: MATH 1233  |        |
| <b>Engineering Graphics</b> MENG 1132 (2)<br>Pre-req: None                                                | <b>ELECTIVE</b> (3)                                            |        |
| <b>College Algebra</b> MATH 1233 (3)<br>Pre-req: Appropriate Math Placement                               | <b>CORE</b> (3) Cultural and Global Understanding<br>CMPS 1023 |        |
| <b>CORE</b> (3) Government<br>POLS 1333                                                                   | <b>CORE</b> (3) Government<br>POLS 1433                        |        |
| <b>Academic Research &amp; Writing</b> ENGL 1143 (3)<br>Pre-req: Appropriate TSI, ACT, or SAT test scores | <b>CORE Communications</b> (3)<br>SPCH 1133 or SPCH 2423       |        |
| <b>ELECTIVE</b> (3)                                                                                       |                                                                |        |

## Second Year

| Fall – 14 hours                                                                     | Spring – 13 hours                                                     | Summer |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------|
| <b>CORE</b> GEOS 1134 (4)<br>Pre-req: None                                          | <b>CORE</b> GEOS 1234 (4)<br>Pre-req: None                            |        |
| <b>Computer Science I</b> CMPS 1044(4) **<br>Pre-req/co-req: MATH 1233 or MATH 1534 | <b>Data Structures &amp; ADTs</b> CMPS 1063 (3)<br>Pre-req: CMPS 1044 |        |
| <b>CORE</b> (3) American History<br>HIST 1133                                       | <b>CORE</b> (3) American History<br>HIST 1233                         |        |
| <b>CORE</b> Creative Arts (3)<br>Approved by university                             | <b>CORE</b> (3) Social Behavioral Science<br>Approved by university   |        |
|                                                                                     | <b>ELECTIVE</b> (3)                                                   |        |

## Third Year

| Fall – 13 hours                                                        | Spring – 13 hours                                                       | Summer                                  |
|------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------|
| <b>Physics</b> (4)<br>PHYS 1144 or PHYS 1624                           | <b>Physics</b> (4)<br>PHYS 1244 or PHYS 2644                            | <b>TECH</b> (3) *<br>pre-req: Sophomore |
| <b>Object Oriented Programming</b> CMPS 2143 (3)<br>Pre-req: CMPS 1063 | <b>Discrete Structures/Analysis</b> CMPS 2433 (3)<br>Pre-req: CMPS 1063 | <b>TECH</b> (3) *<br>pre-req: Sophomore |
| <b>TECH</b> (3) *<br>pre-req: Sophomore                                | <b>TECH</b> (3) *<br>pre-req: Sophomore                                 |                                         |
| <b>TECH</b> (3) *<br>pre-req: Sophomore                                | <b>TECH</b> (3) *<br>pre-req: Sophomore                                 |                                         |
| <b>ELECTIVE</b> (3)                                                    |                                                                         |                                         |

## Fourth Year

| Fall – 15 hours                                                                 | Spring – 13 hours                                                                           | Summer |
|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------|
| <b>CORE</b> Language, Philosophy and Culture (3)<br>Approved by university      | <b>Probability &amp; Statistics</b> STAT 3573 (3)<br>Pre-req/co-req: MATH 1233 or MATH 1534 |        |
| <b>Adv Data Structures &amp; Algorithms</b> CMPS 3013 (3)<br>Pre-req: CMPS 2433 | <b>Adv Computer Science Elective</b> (3)<br>Approved by department                          |        |
| <b>TECH</b> (3) *<br>pre-req: Junior                                            | <b>TECH</b> (3) *<br>pre-req: Junior                                                        |        |
| <b>TECH</b> (3) *<br>pre-req: Junior                                            | <b>TECH</b> (3) *<br>pre-req: Junior                                                        |        |
| <b>ELECTIVE</b> (3)                                                             | <b>Capstone Project</b> TECH 4141 (1)<br>Pre-req: Last semester                             |        |

\* Two Technology classes are rotated starting the junior year. These classes will be offered based on a student's entry date in to the program.

\*\* CMPS 1044 counts as a minor and core requirement (Undergraduate Inquiry & Creativity)

Below are the paired Technology classes :

TECH 3103 Safety Technology/ TECH 3113 Quality Technology  
TECH 3133 Mfg. Technology/ TECH 3143 Prod Planning & Control  
TECH 3153 Project Planning/ TECH 3163 Supply Chain Technology  
TECH 4103 Innovation/ TECH 4113 Facilities Design

TTECH 4123 Energy Technology/ TECH 4133 Construction Technology  
TTECH 4141 Capstone Project