

Advising Sheet: B.S. in Engineering – Manufacturing
2024-2025 Catalog and Forward

Name: _____


ID: _____

| Fall | | | | | Spring | | | | |
|-------------------------------|-----|-------|-----|--|--------|-------------------------------|-------|-----|------------------------------|
| Freshman: | Hrs | Grade | Sem | Prereq/Coreq | | Hrs | Grade | Sem | Prereq/Coreq |
| Writ 101 | (3) | | | | | Writ 102 | (3) | | Writ 101 |
| Math 261 | (3) | | | Math ACT 24 | | Math 262 | (3) | | Math 261 (Min C) |
| Chem 105 | (3) | | | Math ACT 24, Chem 115 | | Chem 106 ⚓ | (3) | | Chem 105 (Min C), Chem 116 |
| Chem 115 | (1) | | | Chem 105 | | Chem 116 ⚓ | (1) | | Chem 106 |
| Engr 100 | (3) | | | | | Csci 251/256 | (3) | | Math 261 |
| Manf 150 | (1) | | | | | Manf 152 | (1) | | |
| | | | | | | Fine Art Elective | (3) | | |
| Total Hours | 14 | | | | | Total Hours | 17 | | |
| Sophomore: | | | | | | | | | |
| Math 263 | (3) | | | Math 262 (Min C) | | Math 264 | (3) | | Math 263 (Min C) |
| Phys 211 | (3) | | | Math 262, Phys 221 | | Math 353 | (3) | | Math 263 (Min C) |
| Phys 221 | (1) | | | Phys 211 | | Phys 212 | (3) | | Phys 211 Phys 222 |
| Engr 309 | (3) | | | Math 263, Phys 211 | | Phys 222 | (1) | | Phys 212 |
| Engr 201 | (3) | | | | | Engr 321 | (3) | | Chem 105, Math 262 |
| Manf 251/252 | (4) | | | | | Manf 253 | (3) | | |
| Total Hours | 17 | | | | | Total Hours | 16 | | |
| Junior: | | | | | | | | | |
| Engr 360 | (3) | | | Math 262, Phys 211, Phys 212 | | Engr 361 | (1) | | Engr 360 |
| Engr 313 | (3) | | | Chem 105 | | Engr 310 | (3) | | Math 262 |
| Engr 314 | (1) | | | Engr 313 | | Engr 323 | (3) | | Phys 211, Math 264, Engr 309 |
| Engr Elective (2XX or higher) | (3) | | | | | Engr 431 ⚓ | (3) | | |
| Manf 255/353 | (4) | | | | | Manf 351/355 | (2) | | |
| Econ 202 (SS) | (3) | | | | | Econ 203 (SS) | (3) | | |
| Total Hours | 17 | | | | | Total Hours | 15 | | |
| Senior: | | | | | | | | | |
| Manf 460 ⚓ | (3) | | | | | Engr Elective (3XX or higher) | (3) | | |
| Engr 451 ⚓ | (2) | | | Engr 321 (Min C-), Econ 310 (Min C-), Engr 431 (Min C-), | | Engr Elective (3XX or higher) | (3) | | |
| Engr 400 ⚓ | (1) | | | | | Engr 452 ⚓ | (1) | | Engr 451 |
| Engr 312 | (3) | | | Engr 309 | | Hum Elective | (3) | | |
| Engr Elective (3XX or higher) | (3) | | | | | Hum/FA Elective | (3) | | |
| Manf 455 | (3) | | | | | Econ 310 | (3) | | |
| Total Hours | 15 | | | | | Total Hours | 16 | | |

TOTAL = 127 HOURS

Must have at least 18 hours of fine arts, humanities, social sciences, and general education courses according to fill the unshaded cells below.

| Fine Arts | Humanities | FA/Hum | Social Science | Gen Ed or SS/Hum/FA |
|-----------|------------|--------|----------------|---------------------|
| | | | Econ 310 | Econ 203 |
| | | | Econ 202 | |

 An anchor means a course is only taught in a designated Fall/Spring semester. However, the class may be taught in Summer session(s).

- **This emphasis is exclusive to students admitted to the Center for Manufacturing Excellence**
- **Pre-approved engineering electives:** Engr 340, BME 200, BME 222, BME 301, BME 311, BME 313, BME 314, BME 333, BME 350, BME 370, BME 510, BME 523, BME 524, Ch E 307, Ch E 308, Ch E 413, Ch E 520, Ch E 521, Ch E 522, Ch E 523, Ch E 524, C E 207, C E 208, C E 210, C E 325, C E 471, C E 472, Csci 111, Csci 112, Csci 343, El E 235, El E 331, G E 305, G E 405, M E 324, M E 325, M E 401, M E 406, and M E 421. Engineering courses not included in this list must be pre-approved by the Director of General Engineering.