# B.S. Engineering Technology 2020-2021 Academic Year

## Student Information

Name: Marion OSU ID: OSU Admit Term:

Phone: Email (name.number@osu.edu): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Suggested Curriculum

This should be used as a guide only. Semester offerings are subject to change.

|  |  |  |
| --- | --- | --- |
| YR | Autumn | Spring |
| 1 | \_\_\_EXP 1100 (University Survey)......................................1 hr  \_\_\_ENGRTEC 1200 (Introduction to Engineerring tech)\*.1 hr  \_\_\_ENGRTEC 1500 Manufacturing Process 1... …...........3 hr  \_\_\_ENGR 1181 Fundamental of Engineering I................ 2 hr  \_\_. Math 1151 (5 cr.) or Math 1154 (4 cr.).........................4-5 hr  \_\_\_General Education.........................................................3 hr  **Total 14-15 hr** | \_\_\_ENGR 1182 Fund Engr 2..........................................2 hr  \_\_\_MATH 1172 (5) or Math 1155 (4)............................4-5 hr  \_\_\_CSE 2111 Excel………………… ……………..….3 hr  \_\_\_ENGRTEC 2500 Manufacturing Process 2..............2 hr  \_\_\_GE Culture/History Foundation................................3 hr \_\_\_GE Launch Seminar ……………………………….1 hr  **Total 15-16 hr** |
| 2 | \_\_\_ENGRTEC 1600 ENGR Graphics .............................3 hr  \_\_\_PHYSICS 1250/1231..................................................5 hr  \_\_\_STATS 3440 (Applications in Quality)\*\*………..…3 hr  \_\_\_GE Race, Ethinics, Gender Diversity Foundation…..3 hr  \_\_\_CSE 1222 (Introduction to Programming)……...…..3 hr  **Total 17 hr** | \_\_\_PHYSICS 1251/1231...........................................3-5 hr  \_\_\_CHEMISTRY 1210 (5) ………..............................5 hr  \_\_\_BUSOBA 3230 (Operations Management).…........3 hr  \_\_\_GE Social Foundation..............................................3 hr  **Total 14-16 hr** |
| . | ----BUSOBA 4250 (Six Sigma Principles)......................3 hr  \_\_\_ENGRTEC 2100 (Intro to Robotics) …............….…2 hr  \_\_\_ENGRTEC 2300 (Electric Circuits.)..........................3 hr  \_\_\_ENGRTEC 3100 (Materials Science Lab) ……… 1/2 hr  \_\_\_ENGRTEC 3800 (Project Management)...................3 hr  \_\_\_MSE 2010 (Material Science in Engineering) ….….3 hr  **Total. 14.5 hr** | \_\_\_ISE 2040 (Engineering Economics)..............................2 hr  \_\_\_ENGRTEC 3700 (Mechanical Processes).....................3 hr  \_\_\_ENGRTEC 3900 (Indus Automation PLC1).................3 hr  \_\_\_ENGRTEC 4300 (Facility Layout Integration.)……....3 hr  \_\_\_GE Literacy (Visual, Perfroming Arts Foundation)…...3 hr \_\_\_GE. Reflection Seminar .................................................1 hr  **Total 15 hr** |
| 4 | \_\_\_ENGRTEC 3600 (Tech, Struct, and Applications)….3 hr  \_\_\_ENGRTEC 4200 (Indus Automation PLC2)…… …3 hr  \_\_\_ENGRTEC 4400 (Leader/Change Management).......3 hr  \_\_\_ENGRTEC 4900 (Capstone 1).\*\*\*\* …. ………….3 hr  \_\_\_GE Theme: (Citizenship) ……………...................... 4 hr    **Total 16 hr** | \_\_\_ENGRTEC 4910 (Capstone 2). …………….................3 hr  \_\_\_ENGRTEC 4500 (Intell. Manuf. & Automation)\*\* …3 hr  \_\_\_ENGRTEC 4600 (Electric Power & Drives)..................3 hr  \_\_\_ENGRTEC 4700 (Networks, Security; Safety App)…..3 hr  \_\_\_GE Theme (open Choice)1 …………………….…..….4 hr  **Total 16 hr** |

Total Hours to complete the degree program = 120.5 to 125.5 hr

Labs fully in Tri-Riverse

Labs partially in Tri-Riverse

\* Fulfills Embedded Literacy: Technology

\*\* Fulfills Embedded Literacy: Data Analysis

\*\*\* Fulfills Embedded Literacy: Advanced Writing

1 Two 3 credit Theme course can be substituted for one 4cr Theme course

[Intelligent Manufacturing and Automation](https://buckeyemailosu.sharepoint.com/:w:/s/OMI/EV2hhsURLOJMk4W4bpcuatIBTWwUmndEkYN1dtv622MqUw?e=n62h2I)

### 

## General Education Requirement

### Writing and Communication

English 1110.xx 3 hr

Second Writing Course 3 hr

### Social Science

Only one course per Social Science group may count.

3 hr

3 hr

### Literature

3 hr

### Visual and Performing Arts

3 hr

### Historical Study

3 hr

### Second Historical Study or Cultures and Ideas

3 hr

### Social Diversity in the United States

Some courses may overlap with another GE category, See course list.

0 / 3 hr

### Ethics

Some courses may overlap with another GE category, See course list.

0 / 3 hr

### Foreign Language

Pre-approved substitutions

1. Credit (including EM) for a foreign language sequence through 1103, or credit for a foreign language course with a prerequisite of 1103, can be substituted for one Gen Ed course requirement as a Cultures & Ideas.
2. Completion of a foreign language minor can be substituted for two Gen Ed courses: one course as a Social Science, (Individuals & Groups or Organizations & Polities subgroups only) and one course as either a Literature or a Cultures & Ideas.

Parameters: Students must choose either Substitution A OR Substitution B. Both substitutions cannot be applied simultaneously.

### University Capstone (Cross-Disciplinary Seminar)

Pre-approved substitutions

Completion of a Social Science 3597 or 4597 can be substituted for a Social Science general education course in any group. Completion of an Arts & Humanities 3597 or 4597 can be substituted for a Visual/Performing Arts general education course.

See the list of approved general education courses for additional details: [www.advising.engineering.osu.edu](http://www.advising.engineering.osu.edu).