# 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.

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| 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/%3Aw%3A/s/OMI/EV2hhsURLOJMk4W4bpcuatIBTWwUmndEkYN1dtv622MqUw?e=n62h2I)

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## 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).