



## Electro-Mechanical Engineering Technology (EMET) Course of Study 2021-2022

| Fall I    |                               |       |           |        |
|-----------|-------------------------------|-------|-----------|--------|
| Course ID | Course Name                   | T/B/G | Credits   | Ck off |
| EEET 1110 | D.C. Circuit Analysis         | T     | 4         |        |
| ENGL 1500 | Composition I                 | G     | 3         |        |
| FYEX 1010 | First Year Success Strategies | B     | 1         |        |
| MATH 1250 | Algebra & Trigonometry        | G     | 4         |        |
| MECH 1000 | Engineering Graphics          | B     | 3         |        |
|           |                               |       |           |        |
|           |                               |       |           |        |
|           |                               |       |           |        |
|           |                               |       |           |        |
|           |                               |       |           |        |
|           | <b>Total:</b>                 |       | <b>15</b> |        |

| Spring I  |                        |       |           |        |
|-----------|------------------------|-------|-----------|--------|
| Course ID | Course Name            | T/B/G | Credits   | Ck off |
| MECH 1100 | Mechanical 3D Modeling | T     | 3         |        |
| MECH 2800 | Robotics               | T     | 3         |        |
| PHYS 2010 | Physics I              | G     | 4         |        |
|           | *English Elective      | G     | 3         |        |
|           | *Math Elective         | G     | 3         |        |
|           |                        |       |           |        |
|           |                        |       |           |        |
|           |                        |       |           |        |
|           |                        |       |           |        |
|           |                        |       |           |        |
|           | <b>Total:</b>          |       | <b>16</b> |        |

| Summer I  |               |       |         |        |
|-----------|---------------|-------|---------|--------|
| Course ID | Course Name   | T/B/G | Credits | Ck off |
|           |               |       |         |        |
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|           |               |       |         |        |
|           | <b>Total:</b> |       |         |        |

**Curriculum Summary:** General (G)/Basic (B) = 30 Hours

Technical (T) = 32 Hours

**Total Curriculum Hours=** 62

| Fall II   |   |       |           |        |
|-----------|---|-------|-----------|--------|
| Course ID | Course Name                             | T/B/G | Credits   | Ck off |
| CHEM 1010 | Introduction to Chemistry               | G     | 3         |        |
| MECH 2200 | Statics                                 | T     | 3         |        |
| MECH 2500 | Hydraulics and Pneumatics               | T     | 3         |        |
|           | *Social and Behavioral Science Elective | G     | 3         |        |
|           | *Technical Elective                     | T     | 3         |        |
|           |   |       |           |        |
|           |   |       |           |        |
|           |   |       |           |        |
|           |   |       |           |        |
|           | <b>Total:</b>                           |       | <b>15</b> |        |

| Spring II |                         |       |           |        |
|-----------|-------------------------|-------|-----------|--------|
| Course ID | Course Name             | T/B/G | Credits   | Ck off |
| EEET 1130 | Electronic Devices      | T     | 4         |        |
| EEET 1230 | A.C. Circuit Analysis   | T     | 4         |        |
| MECH 2300 | Strength of Materials   | T     | 3         |        |
|           | *Communication Elective | G     | 3         |        |
|           | *Technical Elective     | T     | 2         |        |
|           |                         |       |           |        |
|           |                         |       |           |        |
|           |                         |       |           |        |
|           |                         |       |           |        |
|           | <b>Total:</b>           |       | <b>16</b> |        |

| Summer II |               |       |         |        |
|-----------|---------------|-------|---------|--------|
| Course ID | Course Name   | T/B/G | Credits | Ck off |
|           |               |       |         |        |
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|           |               |       |         |        |
|           |               |       |         |        |
|           |               |       |         |        |
|           | <b>Total:</b> |       |         |        |

**NOTE:** Students must complete the computer literacy requirement in order to graduate which may be met through competency testing or completion of a program specific computer course. Refer to the degree audit and consult with the program advisor for the appropriate course(s) that meet the computer literacy requirement.

# Electro-Mechanical Engineering Technology (EMET)

## Course of Study 2021-2022

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| Communication Electives |                             |   |
|-------------------------|-----------------------------|---|
| COMM 1220               | Interpersonal Communication | 3 |
| COMM 2610               | Public Speaking*            | 3 |
| English Electives       |                             |   |
| ENGL 2500               | Composition II*             | 3 |
| ENGL 2800               | Professional Writing        | 3 |
| Mathematics Elective    |                             |   |
| MATH 1350               | Pre-Calculus                | 5 |
| MATH 1650               | Statistics                  | 3 |

| Social & Behavioral Science Electives |   |   |
|---------------------------------------|---|---|
| ECON 1510                             | Microeconomics                            | 3 |
| ECON 1520                             | Macroeconomics                            | 3 |
| HIST 1100                             | Western Civilization to 1492              | 3 |
| HIST 1110                             | Western Civilization from 1942 to Present | 3 |
| HIST 1200                             | U.S. History I                            | 3 |
| HIST 1210                             | U.S. History II                           | 3 |
| POLS 1010                             | American National Government*             | 3 |
| PSYC 1010                             | Introduction to Psychology                | 3 |
| SOCI 1010                             | Introduction to Sociology                 | 3 |

| EMET Technical Electives |   |     |
|--------------------------|---|-----|
| ALTE 1800                | Photovoltaic Energy Systems                     | 2   |
| ALTE 2200                | Wind Power Systems                              | 2   |
| CAMT 1000                | Measurement and Layout                          | 4   |
| CAMT 2000                | CNC Machining                                   | 4   |
| EEET 2150                | Digital Circuits                                | 4   |
| EEET 2210                | Industrial Instrumentation and Controls         | 4   |
| EEET 2450                | Rotating Machinery and Controls                 | 4   |
| ENVS 2850                | OSHA 30 Hour General Industry Safety and Health | 2   |
| ISET 2650                | Mechanical Systems                              | 4   |
| MECH 1200                | Manufacturing Processes                         | 3   |
| MECH 1500                | Survey of Mechanical 3D Modeling                | 3   |
| MECH 1800                | VEX Robotics                                    | 3   |
| MECH 2100                | Engineering Economy*                            | 3   |
| MECH 2600                | Machine Design                                  | 3   |
| MECH 2700                | Project Management                              | 3   |
| MECH 2900                | Statistical Process Control                     | 2   |
| MECH 2920                | Field Experience I                              | 2-4 |
| ROBT 1010                | Robotics Programming I                          | 4   |
| ROBT 1020                | Robot Vision Systems                            | 4   |
| WELD 1700                | Maintenance Welding                             | 4   |

\*CCP students must take the courses with an asterick to meet high school graduation requirements.