

**ACADEMIC ROADMAP**  
**Bachelor of Science: SP 2017**  
**Industrial Technology (Manufacturing Option)**

**Freshman Year**

| <b>FIRST SEMESTER</b>             |                       |            |                 | <b>SECOND SEMESTER</b>            |                       |            |                 |
|-----------------------------------|-----------------------|------------|-----------------|-----------------------------------|-----------------------|------------|-----------------|
| <b>Course Title</b>               | <b>Catalog Number</b> | <b>REQ</b> | <b>Sequence</b> | <b>Course Title</b>               | <b>Catalog Number</b> | <b>REQ</b> | <b>Sequence</b> |
| Intellectual Foundations Elective |                       |            |                 | Intellectual Foundations Elective |                       |            |                 |
| Core Math                         | MAT-114               | X          |                 | Core Chemistry                    | CHE-101               | X          |                 |
| Foreign Language                  |                       | X          |                 | Foreign Language                  |                       | X          |                 |
| Technical Drawing                 | TEC-101               | X          |                 | Manufacturing Materials           | TEC-201               | X          |                 |
| CWP 101                           | CWP 101               | X          |                 | CWP 102                           | CWP 102               | X          |                 |

**Sophomore Year**

| <b>THIRD SEMESTER</b>             |                       |            |                 | <b>FOURTH SEMESTER</b>            |                       |            |                 |
|-----------------------------------|-----------------------|------------|-----------------|-----------------------------------|-----------------------|------------|-----------------|
| <b>Course Title</b>               | <b>Catalog Number</b> | <b>REQ</b> | <b>Sequence</b> | <b>Course Title</b>               | <b>Catalog Number</b> | <b>REQ</b> | <b>Sequence</b> |
| Advanced Algebra and Trigonometry | MAT-124               | X          |                 | General Physics I                 | PHY-107               | X          |                 |
| Materials Science and Testing     | TEC-311               | X          |                 | CAD/CAM                           | TEC-302               | X          |                 |
| Intellectual Foundations Elective |                       |            |                 | Intellectual Foundations Elective |                       |            |                 |
| All College Elective              |                       |            |                 | All College Elective              |                       |            |                 |
| All College Elective              |                       |            |                 | All College Elective              |                       |            |                 |

**Junior Year**

| <b>FIFTH SEMESTER</b>             |                       |            |                 | <b>SIXTH SEMESTER</b>             |                       |            |                 |
|-----------------------------------|-----------------------|------------|-----------------|-----------------------------------|-----------------------|------------|-----------------|
| <b>Course Title</b>               | <b>Catalog Number</b> | <b>REQ</b> | <b>Sequence</b> | <b>Course Title</b>               | <b>Catalog Number</b> | <b>REQ</b> | <b>Sequence</b> |
| Electromechanics                  | TEC-314               | X          |                 | Materials Management              | TEC-312               | X          |                 |
| Industrial Systems Applications   | TEC-404W              | X          |                 | Statistical Quality Control       | TEC-313               | X          |                 |
| Intellectual Foundations Elective |                       |            |                 | Marketing                         | TEC-400 /BUS320       | X          |                 |
| Intellectual Foundations Elective |                       |            |                 | Intellectual Foundations Elective |                       |            |                 |
| All College Elective              |                       |            |                 | All College Elective              |                       |            |                 |

**Senior Year**

| <b>SEVENTH SEMESTER</b>           |                       |            |                 | <b>EIGHTH SEMESTER</b>            |                       |            |                 |
|-----------------------------------|-----------------------|------------|-----------------|-----------------------------------|-----------------------|------------|-----------------|
| <b>Course Title</b>               | <b>Catalog Number</b> | <b>REQ</b> | <b>Sequence</b> | <b>Course Title</b>               | <b>Catalog Number</b> | <b>REQ</b> | <b>Sequence</b> |
| Ergonomics                        | TEC-402               | X          |                 | Systems Analysis                  | TEC-403               | X          |                 |
| Energy Systems                    | TEC-351               | X          |                 | Manufacturing Technology          | TEC-405W              | X          |                 |
| Safety Management                 | TEC-465               | X          |                 | Intellectual Foundations Elective |                       |            |                 |
| Intellectual Foundations Elective |                       |            |                 | All College Elective              |                       |            |                 |
| All College Elective              |                       |            |                 | All College Elective              |                       |            |                 |