

# Process Piping Design

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The field of process piping design involves moving substances that are used in industrial settings, either in production or in other processes.

The field encompasses many different areas, including Computer-Aided Drafting and Design (CADD), electrical design, and plumbing.

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## What Will I Learn?

The Study of Process Technology involves learning how the industrial process works. You will learn about process equipment such as pumps, compressors, reactors, and distillation columns. Technical knowledge and skills are gained in areas such as operating equipment, controlling instrumentation systems, monitoring process systems, and troubleshooting those systems. These courses prepare students for entry-level employment as process technicians in the processing industries.

## What Can I Do with This Course of Study?

Graduates of the Lee College Chemical Process Technology program have the opportunity to work as:

- Refinery technician or board operator
- Chemical technician or console operator
- Research technicians Laboratory technician
- Power generation technician
- Pharmaceutical technician
- Food processing and distribution technician
- Paper and pulp processing technician
- Process training coordinator
- Engineering specialist
- Quality control technician First line supervisor Second line supervisor

## AAS: Process Piping Design PPD2

**Foundations: These are the courses students need in order to progress in their career/college pathway, as they either provide a certificate or lay the groundwork for moving to the next set of courses.**

| Course    | Course Title                  | Counts Toward Certificate |
|-----------|-------------------------------|---------------------------|
| DFTG 1405 | Technical Drafting            | TP1, PPD1                 |
| DFTG 1409 | Basic Computer-Aided Drafting | TP1, PPD1                 |

|           |                                      |           |
|-----------|--------------------------------------|-----------|
| DFTG 2417 | Descriptive Geometry                 | TP1       |
| DFTG 2419 | Intermediate Computer-Aided Drafting | TP1, PPD1 |

**Knowledge Building: These courses further the students' knowledge in the area of study and increase their preparation for the degree completion.**

| Course    | Course Title                                      | Counts Toward Certificate |
|-----------|---|---------------------------|
| DFTG 2408 | Instrumentation Drafting                          | PPD1                      |
| DFTG 2423 | Pipe Drafting                                     | PPD1                      |
| DFTG 2432 | Advanced Computer-Aided Drafting                  | PPD1                      |
| DFTG 2445 | Advanced Pipe Drafting                            | PPD1                      |
| DFTG 2457 | Advanced Technologies in Pipe Design and Drafting | PPD1                      |
| PFPB 2449 | Field Measuring, Sketching, and Layout            | PPD1                      |
| DFTG 1433 | Mechanical Drafting                               |                           |
| ENGL 1301 | English Composition I                             |                           |

**Completion: These are the courses the student needs in order to complete the degree plan and prepare to enter the workforce.**

| Course   | Course Title   | Counts Toward Certificate |
|--|--|---------------------------|
| Creative Arts/<br>Language,<br>Philosophy and<br>Culture | Suggested: ARCH<br>1311, HUMA 1301,<br>SPAN 2311<br>Options:ARCH<br>1311, ARTS 1301,<br>ARTS 1303, ARTS<br>1304, DRAM<br>1310, DRAM 2366,<br>MUSI 1306, MUSI<br>1310, HIST 2321,<br>HIST 2322, HUMA<br>1301, HUMA 1305,<br>HUMA 2319, PHIL<br>1301, PHIL 1304,<br>SPAN 2311, SPAN<br>2312, SPAN 2313,<br>SPAN 2315 |                           |
| SBS/HIST/GOVT<br>PS                                      | Suggested: ECON<br>2301, PSYC 2301,<br>SOCI 1301<br>Options: ECON<br>2301, ECON 2302,  |                           |

|  |   |
|--|---|
|  | GEOG 1303,<br>GOVT 2305, GOVT<br>2306, HIST 1301,<br>HIST 1302, HIST<br>2302, PSYC 2301,<br>SOC 1301  |
| Life and Physical<br>Sciences /<br>Mathematics | Suggested: BIOL<br>1406, BIOL 1407,<br>GEOL 1403, GEOL<br>1404<br>Options: BIOL<br>1406, BIOL 1407,<br>BIOL 1409, BIOL<br>1408, BIOL 2401,<br>BIOL 2402, BIOL<br>2416, BIOL 2421,<br>CHEM 1405, ENVR<br>1402, GEOL 1347,<br>GEOL 1403, GEOL<br>1404, GEOL 1405,<br>GEOL 1447, ENVR<br>1401, PHYS 1317,<br>PHYS 1403, PHYS<br>1404, PHYS 1405,<br>PHYS 1407, PHYS<br>1415, PHYS 1417,<br>MATH 1314, MATH<br>1316, MATH 1324,<br>MATH 1332, MATH<br>1342, MATH 2412,<br>MATH 2413 |
| SPCH   | Suggested: SPCH<br>1321<br>Options: SPCH<br>1311, SPCH 1315,<br>SPCH 1318   |

## PPD1: Certificate of Completion — Process Piping

**Foundations:** These are the courses students need in order to progress in their career/college pathway, as they lay the groundwork for moving to the next set of courses.

| Course    | Course Title                  | Counts Toward Certificate |
|-----------|-------------------------------|---------------------------|
| DFTG 1405 | Technical Drafting            | PPD1                      |
| DFTG 1409 | Basic Computer-Aided Drafting | PPD1                      |

DFTG 2419 Intermediate Computer- PPD1  
Aided Drafting

**Knowledge Building: These courses further the students' knowledge in the area of study and complete the certificate.**

| <b>Course</b> | <b>Course Title</b>                                  | <b>Counts Toward Certificate</b> |
|---------------|--|----------------------------------|
| DFTG 2408     | Instrumentation Drafting                             | PPD1                             |
| DFTG 2423     | Pipe Drafting  | PPD1                             |
| DFTG 2432     | Advanced Computer-<br>Aided Drafting                 | PPD1                             |
| DFTG 2445     | Advanced Pipe Drafting                               | PPD1                             |
| DFTG 2457     | Advanced Technologies in<br>Pipe Design and Drafting | PPD1                             |
| PFPB 2449     | Field Measuring,<br>Sketching, and Layout            | PPD1                             |

## **TP1 - Computer-Aided Drafting and Design**

**Foundations: These are the courses students need in order to progress in their career/college pathway, as they provide a certificate.**

| <b>Course</b> | <b>Course Title</b>                      | <b>Counts Toward Certificate</b> |
|---------------|--|----------------------------------|
| DFTG 1405     | Technical Drafting                       | TP1                              |
| DFTG 1409     | Basic Computer-Aided<br>Drafting         | TP1                              |
| DFTG 2417     | Descriptive Geometry                     | TP1                              |
| DFTG 2419     | Intermediate Computer-<br>Aided Drafting | TP1                              |

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## **Contact Info.**

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