

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.

[Download Program Brochure \(PDF\)](#)

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/ Language, Philosophy and Culture	Suggested: ARCH 1311, HUMA 1301, SPAN 2311 Options:ARCH 1311, ARTS 1301, ARTS 1303, ARTS 1304, DRAM 1310, DRAM 2366, MUSI 1306, MUSI 1310, HIST 2321, HIST 2322, HUMA 1301, HUMA 1305, HUMA 2319, PHIL 1301, PHIL 1304, SPAN 2311, SPAN 2312, SPAN 2313, SPAN 2315	
SBS/HIST/GOVT PS	Suggested: ECON 2301, PSYC 2301, SOCL 1301	

	Options: ECON 2301, ECON 2302, GEOG 1303, GOVT 2305, GOVT 2306, HIST 1301, HIST 1302, HIST 2302, PSYC 2301, SOC 1301
Life and Physical Sciences / Mathematics	Suggested: BIOL 1406, BIOL 1407, GEOL 1403, GEOL 1404 Options: BIOL 1406, BIOL 1407, BIOL 1409, BIOL 1408, BIOL 2401, BIOL 2402, BIOL 2416, BIOL 2421, CHEM 1405, ENVR 1402, GEOL 1347, GEOL 1403, GEOL 1404, GEOL 1405, GEOL 1447, ENVR 1401, PHYS 1317, PHYS 1403, PHYS 1404, PHYS 1405, PHYS 1407, PHYS 1415, PHYS 1417, MATH 1314, MATH 1316, MATH 1324, MATH 1332, MATH 1342, MATH 2412, MATH 2413
SPCH	Suggested: SPCH 1321 Options: SPCH 1311, SPCH 1315, 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-Aided Drafting	PPD1

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

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

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.

Course	Course Title	Counts Toward Certificate
DFTG 1405	Technical Drafting	TP1
DFTG 1409	Basic Computer-Aided Drafting	TP1
DFTG 2417	Descriptive Geometry	TP1
DFTG 2419	Intermediate Computer-Aided Drafting	TP1

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