

# INDUSTRIAL TECHNOLOGY (DESIGN TECHNOLOGY CONCENTRATION), BACHELOR OF SCIENCE

The University Core Curriculum is the same across all undergraduate bachelor's programs. Please consult the academic advisor for your designated major before selecting courses in this area.

## Summary

Code	Title	Hours
Core Curriculum Requirements ( <a href="https://catalog.tsu.edu/undergraduate/general-education-core-curriculum/">https://catalog.tsu.edu/undergraduate/general-education-core-curriculum/</a> )		42
<b>Major Requirements (39 hours)</b>		
DRFT 131	Fundamentals Of Drafting	3
DRFT 133	Architectural Drafting	3
DRFT 134	Mechanical Drawing	3
DRFT 136	Architecural Rendering	3
DRFT 231	Pipe Drafting	3
DRFT 232	Architectural Design	3
DRFT 233	Intro Comp-Aided Design	3
DRFT 331	Pipe System Design	3
DRFT 333	Machine Design	3
DRFT 336	Computer-Aided Design	3
DRFT 430	Adv Comp-Aided Design	3
DRFT 431	Structural Drafting and Design	3
DRFT 432	Senior Design Project	3
<b>Other Requirements (44 hours)</b>		
ACCT 231	Principles Of Accounting I <sup>1</sup>	3
CONS 141	Construction Materials & Application	2
CONS 141L	Materials and Applications Lab	1
CONS 333	Quantity Surveying	3
MFG 232	Appllied Statics	3
ELET 131	DC Circuits	3
FS 102	Freshman Seminar/ first Year Experience	1
ITEC 331	Technical Writing	3
ITEC 333	Ind Superv & Management	3
ITEC 412	Senior Seminar	1
ITEC 439	Industrial Safety	3
MATH 134	Plane Trigonometry	3
MATH 1325	Elements of Calculus	3
MFG 231	Manufacturing Processes	3
MFG 333	Strength Of Materials	3
Electives (6 hours) <sup>2</sup>		6
<b>Total Hours</b>		<b>125</b>

1

MATH 1325 Elements of Calculus # prerequisite for ACCT 231 Principles Of Accounting I

2

Electives should be selected from the following courses: DRFT 132 Descriptive Geometry, CONS 341 MEPFI Systems

Course	Title	Hours
<b>First Year</b>		
<b>First Semester</b>		
ARTS 1315	Intro African Art	3
COSC 1301	Intro To Compr Science I	3
DRFT 131	Fundamentals Of Drafting	3
ENGL 1301	Freshman English I	3
FS 102	Freshman Seminar/ first Year Experience	1
MATH 1314	College Algebra	3
<b>Hours</b>		<b>16</b>
<b>Second Semester</b>		
CONS 141	Construction Materials & Application	2
CONS 141L	Materials and Applications Lab	1
DRFT 134	Mechanical Drawing	3
ELET 131	DC Circuits	3
ENGL 1302	Freshman English II	3
MATH 134	Plane Trigonometry	3
<b>Hours</b>		<b>15</b>
<b>Second Year</b>		
<b>Third Semester</b>		
CHEM 1311	Chemistry I	3
ENG 2XX (Upper Level)		3
DRFT 133	Architectural Drafting	3
DRFT 231	Pipe Drafting	3
MFG 231	Manufacturing Processes	3
MATH 1325	Elements of Calculus	3
<b>Hours</b>		<b>18</b>
<b>Fourth Semester</b>		
DRFT 136	Architecural Rendering	3
DRFT 232	Architectural Design	3
ACCT 231	Principles Of Accounting I	3
PHYS 1301	College Physics I	3
COMM 1321 or COMM 1315	Business & Professional Comm or Public Address	3
<b>Hours</b>		<b>15</b>
<b>Third Year</b>		
<b>Fifth Semester</b>		
MFG 232	Appllied Statics	3
DRFT 233	Intro Comp-Aided Design	3
DRFT 333	Machine Design	3
ITEC 333	Ind Superv & Management	3
HIST 1301	Soc & Pol Hist US to 1877	3
POLS 2305	American Government	3
<b>Hours</b>		<b>18</b>
<b>Sixth Semester</b>		
PSYC 2301	General Psychology	3
DRFT 331	Pipe System Design	3
ITEC 331	Technical Writing	3

MFG 333	Strength Of Materials	3
HIST 1302	Soc & Pol Hist US Since 1877	3
POLS 2306	Texas Government	3
<b>Hours</b>		<b>18</b>

**Fourth Year**

**Seventh Semester**

DRFT 336	Computer-Aided Design	3
DRFT 431	Structural Drafting and Design	3
ITEC 439	Industrial Safety	3
CONS 333	Quantity Surveying	3
Elective		3
<b>Hours</b>		<b>15</b>

**Eighth Semester**

DRFT 430	Adv Comp-Aided Design	3
DRFT 432	Senior Design Project	3
ITEC 412	Senior Seminar	1
Elective		3
Comprehensive Exam		0
<b>Hours</b>		<b>10</b>

**Total Hours 125**

1

Pending acceptable score on English and Mathematics Placement Examination.