

Syllabus 3rd Year 2023-2024

Test Date:	9/7/2023	Instrumentation Introduction	Level	I	Test Grade:
Syllabus Number	Title	Book Name	Lesson/Lab #	Date	Due Date
1	Math Pre-Test Assesment, Math	Test Instruments and Applications (S571), Applied Science of Instrumentation (S600)	Lesson 1, 2	8/15/2023	8/20/2023
2	Science Pre-Test Assesment, Science	Test Instruments and Applications (S571), Applied Science of Instrumentation (S600)	Lesson 3, 4	8/17/2023	8/20/2023
3	Electrical Theory Pre-Test Assesment, Electrical Theory	Test Instruments and Applications (S571), Applied Science of Instrumentation (S600)	Lesson 5, 6	8/22/2023	8/27/2023
4	Meters and Measurements Pre-Test Assesment, Meters and Measurements	Test Instruments and Applications (S571), Applied Science of Instrumentation (S600)	Lesson 7, 8	8/24/2023	8/27/2023
5	Instrumentation Vocabulary Pre-Test Assesment, Instrumentation Vocabulary	Test Instruments and Applications (S571), Applied Science of Instrumentation (S600)	Lesson 9, 10	8/29/2023	9/3/2023
6	Process and Instrumentation Diagram Interpretation Pre-Test Assesment, Process and Insurmentation Diagram Interpretation	Test Instruments and Applications (S571), Applied Science of Instrumentation (S600)	Lesson 11, 12	8/31/2023	9/3/2023
Labor Day Observed 9/5/2023					
Mandatory meeting at the Union Hall at 6:00PM 9/6/2023					
Test Date:	10/17/2023	Instrumentation Introduction	Level	II	Test Grade:
Syllabus Number	Title	Book Name	Lesson/Lab #	Date	Due Date
7	Review	Applied Science of Instrumentation (S600)	Lesson 1	9/7/2023	9/10/2023
8	Introduction to Instrumentation	Applied Science of Instrumentation (S600)	Lesson 2	9/12/2023	9/17/2023
9	Fundamentals of Process and Control Systems	Applied Science of Instrumentation (S600)	Lesson 3	9/14/2023	9/17/2023
10	Instrumentation Symbols and Diagrams	Applied Science of Instrumentation (S600)	Lesson 4	9/19/2023	9/24/2023
11	Calibration Procedure and Documentation	Applied Science of Instrumentation (S600)	Lesson 5	9/21/2023	9/24/2023
12	Principles of Pressure	Applied Science of Instrumentation (S600)	Lesson 6	9/26/2023	10/1/2023
13	Principles of Level	Applied Science of Instrumentation (S600)	Lesson 7	9/28/2023	10/1/2023
14	Principles of Flow	Applied Science of Instrumentation (S600)	Lesson 8	10/3/2023	10/8/2023
15	Principles of Temperature	Applied Science of Instrumentation (S600)	Lesson 9	10/5/2023	10/8/2023
16	Communication	Applied Science of Instrumentation (S600)	Lesson 10	10/10/2023	10/15/2023
17	Control Valves, Actuators, and Accessories	Applied Science of Instrumentation (S600)	Lesson 11	10/12/2023	10/15/2023
Test Date:	11/2/2023	Instrument Introduction	Level	III	Test Grade:
Syllabus Number	Title	Book Name	Lesson/Lab #	Date	Due Date
18	Review	Applied Science of Instrumentation (S600)	Lesson 1	10/17/2023	10/22/2023
19	Analytical Measurement	Applied Science of Instrumentation (S600)	Lesson 2	10/19/2023	10/22/2023
20	Process Controllers	Applied Science of Instrumentation (S600)	Lesson 3	10/24/2023	10/29/2023
21	Fundamentals of Control	Applied Science of Instrumentation (S600)	Lesson 4	10/26/2023	10/29/2023
22	Installation of Control Systems	Applied Science of Instrumentation (S600)	Lesson 5	10/31/2023	11/2/2023
Test Date:	11/21/2023	Motors	Level	I	Test Grade:
Syllabus Number	Title	Book Name	Lesson/Lab #	Date	Due Date
23	Magnetism and Induction	Motors (S649)	Lesson 1	11/2/2023	11/5/2023
24	Motor Nameplates	Motors (S649)	Lesson 2	11/7/2023	11/12/2023
25	AC Alternators	Motors (S649)	Lesson 3	11/9/2023	11/12/2023
26	Three-Phase Motors	Motors (S649)	Lesson 4	11/14/2023	11/19/2023
27	Squirrel-Cage Motors	Motors (S649)	Lesson 5	11/16/2023	11/19/2023
Thanksgiving Day 11/23/2023					
Test Date:	12/14/2023	Motors	Level	III	Test Grade:
Syllabus Number	Title	Book Name	Lesson/Lab #	Date	Due Date
28	Wound-Rotor Motors	Motors (S649)	Lesson 1	11/28/2023	12/3/2023
29	Single-Phase Motors, Motor Protection	Motors (S649)	Lesson 2, 3	11/30/2023	12/3/2023
30	DC Motors and Generators, Starting	Motors (S649)	Lesson 4, 5	12/5/2023	12/10/2023
31	Motor Branch Circuits, Protection	Motors (S649)	Lesson 6, 7	12/7/2023	12/10/2023
Winter Break 12/18/2023 - 1/2/2023					
Test Date	1/18/2024	Test Instruments	Level	I	Test Grade
Syllabus Number	Title	Book Name	Lesson/Lab #	Date	Due Date
33	Voice-Data-Video (VDV) Test Instruments	Test Instruments and Applications (S571)	Lesson 1	1/2/2024	1/7/2024
34	Power Quality Test Instruments	Test Instruments and Applications (S571)	Lesson 2	1/4/2024	1/7/2024
35	Test Instruments	Test Instruments and Applications (S571)	Lesson 3	1/9/2024	1/14/2024
36	Instruments	Test Instruments and Applications (S571)	Lesson 4	1/11/2024	1/14/2024
37	Troubleshooting	Test Instruments and Applications (S571)	Lesson 5, 6	1/16/2024	1/18/2024