



**NIDA CORPORATION  
COMPUTER ASSISTED INSTRUCTION**

**COURSE CHART**

**HTML Lessons - Model 360S**

**2012-03-27**



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## COURSE CHART - HTML Lessons - Model 360S

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### **GENERAL**

#### **Prerequisites**

1011-120-130	Safety Practices . . . . .	---
1011-120-160	Electrostatic Sensitive Devices . . . . .	---

### **SYSTEMS - BASIC (MODEL 3600)**

#### **Introduction to Systems**

7211-112-130	Systems Familiarization . . . . .	ST101, ST102, ST103, ST104, ST105, ST106
7211-112-160	Systems Safety . . . . .	---
7211-112-190	Multimeter Familiarization . . . . .	ST101, ST102, ST103, ST104, ST105, ST106
7211-112-220	Oscilloscope Familiarization . . . . .	ST101, ST102, ST103, ST104, ST105, ST106

#### **System Structure and Behavior**

7211-114-130	System Input and Output Devices . . . . .	ST101, ST102, ST103, ST104, ST105, ST106
7211-114-160	System Control and Interface . . . . .	ST101, ST102, ST103, ST104, ST105, ST106
7211-114-190	System Indicator, Display, and Monitor Devices . . . . .	ST101, ST102, ST103, ST104, ST105, ST106

#### **System Testing and Troubleshooting**

7211-116-160	System Maintenance and Diagnostics . . . . .	ST101, ST102, ST103, ST104, ST105, ST106
7211-116-190	System Malfunctions and Troubleshooting . . . . .	ST101, ST102, ST103, ST104, ST105, ST106

### **SYSTEMS - RENEWABLE ENERGY - HOME (MODEL 3601)**

#### **Introduction**

7231-112-130	Introduction to Renewable Energy Systems . . . . .	---
7231-112-160	Energy Sources and Site Surveys . . . . .	---

#### **Home Energy Systems**

7231-114-130	Home Solar Energy System Fundamentals . . .	ES101, ES102, ES104, ES105, ES106, ES107
7231-114-160	Home Wind Energy System Fundamentals . . .	ES101, ES102, ES104, ES105, ES106, ES107, ES182
7231-114-190	Home Hybrid Energy System Fundamentals . . . . .	ES101, ES102, ES104, ES105, ES106, ES107, ES182
7231-114-220	Home Energy System Maintenance and Diagnostics . .	ES101, ES102, ES104, ES105, ES106, ES107, ES182
7231-114-250	Home Energy System Malfunctions and Troubleshooting . . . . .	ES101, ES102, ES104, ES105, ES106, ES107
7231-114-920	Home Energy Systems Post-Test (Theory) . . . . .	---

### **SYSTEMS - RENEWABLE ENERGY - COMMERCIAL WIND (MODEL 3602)**

#### **Introduction**

7231-112-130	Introduction to Renewable Energy Systems . . . . .	---
7231-112-160	Energy Sources and Site Surveys . . . . .	---

#### **Wind Energy Systems**

7231-116-130	Wind Turbine System Fundamentals . . . . .	ES101, ES102, ES103, ES110, ES111, ES112, ES181
7231-116-160	3-Phase Power Fundamentals . . . . .	ES101, ES102, ES103, ES110, ES111, ES112, ES181

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### **SYSTEMS - RENEWABLE ENERGY - COMMERCIAL WIND (MODEL 3602) (cont.)**

#### **Wind Energy Systems (cont.)**

7231-116-190 Wind Turbine System Maintenance and Diagnostics . .	ES101, ES102, ES103, ES110, ES111, ES112, ES181
7231-116-220 Wind Turbine System Malfunctions and Troubleshooting . . . . .	ES101, ES102, ES103, ES110, ES111, ES112, ES181
7231-116-920 Commercial Wind Energy Systems Post-Test (Theory) . . . . .	---

### **SYSTEMS - RENEWABLE ENERGY - COMMERCIAL SOLAR (MODEL 3603)**

#### **Introduction**

7231-112-130 Introduction to Renewable Energy Systems . . . . .	---
7231-112-160 Energy Sources and Site Surveys . . . . .	---

#### **Solar Energy Systems**

7231-118-130 Solar Thermal System Fundamentals . . . . .	---
7231-118-160 Solar Photovoltaic System Fundamentals . . . . .	ES101, ES102, ES104, ES107, ES108, ES109
7231-118-190 Solar Photovoltaic System Maintenance and Diagnostics . . . . .	ES101, ES102, ES104, ES107, ES108, ES109
7231-118-220 Solar Photovoltaic System Malfunctions and Troubleshooting . .	ES101, ES102, ES104, ES107, ES108, ES109
7231-118-920 Commercial Solar Energy Systems Post-Test (Theory) . . . . .	---

### **SYSTEMS - POWER DISTRIBUTION (MODEL 3604)**

#### **Transmission and Distribution**

7231-714-130 3-Phase Fundamentals . . . . .	ES151, ES152, ES153, ES154, ES155, ES156
7231-714-160 Power Transmission and Distribution Fundamentals . .	ES151, ES152, ES153, ES154, ES155, ES156
7231-714-190 3-Phase and Single-Phase Service Feeds . . . . .	ES151, ES152, ES153, ES154, ES155, ES156
7231-714-220 Power Transmission and Distribution Maintenance . . .	ES151, ES152, ES153, ES154, ES155, ES156
7231-714-250 Power Grid Troubleshooting . . . . .	ES151, ES152, ES153, ES154, ES155, ES156
7231-714-920 Power Distribution Post-Test (Theory) . . . . .	---

### **SONAR (MODEL 3650)**

7811-614-130 Introduction to Sonar . . . . .	---
7811-614-160 Principles of Sonar . . . . .	Headset, MS101, MS102, MS103, MS104, MS105, MS106, MS113
7811-614-190 Oceanography . . . . .	Headset, MS107, MS108, MS109, MS110, MS111, MS112, MS114(2)
7811-614-220 Basic Sonar Transmitter, Receiver, and Processing . . . . .	Headset, MS101, MS102, MS103, MS104, MS105, MS106, MS107, MS108, MS109, MS110, MS111, MS112, MS113, MS114(2)
7811-614-250 Active Sonar System Troubleshooting . . . . .	Headset, MS101, MS102, MS103, MS104, MS105, MS106, MS113

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### **SONAR (MODEL 3650) (cont.)**

7811-614-280 Passive Sonar System Experiments . . . . .	Headset, MS107, MS108, MS109, MS110, MS111, MS112, MS114(2)
7811-614-310 Ships Fitted Sonar Equipment - Royal Australian Navy Vessels . . . . .	---
7811-614-940 Sonar Post-Test (Theory) . . . . .	---
7811-614-940AU Sonar Post-Test (Theory) . . . . .	---

### **MATHEMATICS**

#### **Basic Math**

2011-112-130 Adding and Subtracting . . . . .	---
2011-112-160 Multiplying and Dividing . . . . .	---
2011-112-190 Fractions . . . . .	---
2011-112-220 Fraction Operations . . . . .	---
2011-112-250 Decimal Fractions . . . . .	---
2011-112-280 Signed Numbers . . . . .	---
2011-112-310 Percents . . . . .	---
2011-112-340 Exponents and Square Roots . . . . .	---
2011-112-370 Metric Notation . . . . .	---

#### **Algebra**

2011-212-130 Fundamentals of Algebra . . . . .	---
2011-212-160 Linear Equations . . . . .	---
2011-212-190 Solving Linear Equations . . . . .	---
2011-212-220 Exponents and Monomials . . . . .	---
2011-212-250 Polynomials . . . . .	---
2011-212-280 Factoring Polynomials . . . . .	---
2011-212-310 Roots and Radicals . . . . .	---
2011-212-340 Graphs . . . . .	---
2011-212-370 Systems of Linear Equations . . . . .	---
2011-212-400 Introduction to Statistics . . . . .	---

#### **Trigonometry**

2011-214-130 Fundamentals of Trigonometry . . . . .	---
2011-214-160 Trigonometric Functions . . . . .	---
2011-214-190 Graphing Trigonometric Functions . . . . .	---
2011-214-220 Trigonometric Identities . . . . .	---
2011-214-250 Angle Formulas . . . . .	---
2011-214-280 Inverse Trigonometric Functions . . . . .	---
2011-214-310 Applications of Trigonometry . . . . .	---
2011-214-340 Graphing Polar Equations . . . . .	---
2011-214-370 Conic Sections: Circles and Parabolas . . . . .	---
2011-214-400 Conic Sections: Ellipses and Hyperbolas . . . . .	---

#### **Calculus**

2011-216-130 Fundamentals of Calculus . . . . .	---
2011-216-160 Limits . . . . .	---
2011-216-190 Limits: Continuity and Infinity . . . . .	---
2011-216-220 Derivatives . . . . .	---
2011-216-250 The Chain Rule . . . . .	---
2011-216-280 Additional Differentiation Methods . . . . .	---
2011-216-310 Applications of Derivatives . . . . .	---

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### **MATHEMATICS (cont.)**

#### **Calculus (cont.)**

2011-216-340	Integration . . . . .	---
2011-216-370	Definite Integrals . . . . .	---
2011-216-400	Applications of Definite Integrals . . . . .	---

#### **Computer Math**

2011-312-130	Fundamentals of Computer Math . . . . .	---
2011-312-160	The Binary System . . . . .	---
2011-312-190	Octal and Hexadecimal Systems . . . . .	---
2011-312-220	Logic Expressions . . . . .	---
2011-312-250	Boolean Algebra . . . . .	---
2011-312-280	Gate Networks . . . . .	---
2011-312-310	Simplifying Boolean Equations . . . . .	---
2011-312-340	Karnaugh Maps . . . . .	---
2011-312-370	Algorithms and Flowcharts . . . . .	---
2011-312-400	Sequences and Matrices . . . . .	---

#### **Measurements**

2011-412-130	Introduction to Linear Measurements . . . . .	---
2011-412-160	Metric and Scientific Conversions . . . . .	---
2011-412-190	Angular and Circular Measurements . . . . .	---
2011-412-220	Area Measurements . . . . .	---
2011-412-250	Volume Measurements . . . . .	---
2011-412-280	Velocity and Acceleration Measurements . . . . .	---
2011-412-310	Force Measurements . . . . .	---
2011-412-340	Work and Power Measurements . . . . .	---

### **CHEMISTRY**

3011-112-130	Introduction to Chemistry . . . . .	---
3011-112-160	Matter and Energy . . . . .	---
3011-112-190	The Periodic Table . . . . .	---
3011-112-220	Solids, Liquids, and Gases . . . . .	---
3011-112-250	Atomic Structure . . . . .	---
3011-112-280	Bonding . . . . .	---
3011-112-310	Chemical Quantities . . . . .	---
3011-112-340	Chemical Names . . . . .	---
3011-112-370	Chemical Reactions . . . . .	---
3011-112-400	Applications of Chemistry . . . . .	---