

INSTALLER TECHNICIAN SOUND & COMMUNICATION (ITSC)

ITSC 101 • STRUCTURED CABLING ESSENTIALS

Units: 0.5
Hours: 9 lecture, 6 laboratory per quarter (15 total per quarter)
Prerequisite: Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry.

Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Covers the essentials in structured cabling, including telephony, industry standards, performance, and wiring.

ITSC 105 • FIBER 1

Units: 1
Hours: 15 lecture per quarter (15 total per quarter)
Prerequisite: Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry.

Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Covers safety involved with optical cable, optical cable terms, communications over optical cable, fiber optic cable types, bandwidth performance, the effects of attenuation, fiber optic termination, splices, and types of connectors.

ITSC 106 • FIBER 2

Units: 0.5
Hours: 8 lecture, 9 laboratory per quarter (17 total per quarter)
Prerequisite: Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry.

Advisory: ITSC 105.
Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Covers fiber optic transmission, testing, networks, installation and testing practices.

ITSC 110 • ELECTRICAL THEORY ESSENTIALS

Units: 1
Hours: 12 lecture, 14 laboratory per quarter (26 total per quarter)
Prerequisite: Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry.

Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Covers the basics of electrical circuits, how electricity works, how to calculate and measure voltage, current, resistance and power in a series and/or parallel circuit.

ITSC 113 • MASTER CLOCKS

Units: 0.5
Hours: 6 lecture, 3 laboratory per quarter (9 total per quarter)
Prerequisite: Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry.

Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Covers the theory and installation of a master clock system. Lessons include: types of clocks, wired clocks, wireless clocks, clock syncing, and advanced clocks.

ITSC 114 • NURSE CALL SYSTEMS

Units:	0.5
Hours:	6 lecture, 6 laboratory per quarter (12 total per quarter)
Prerequisite:	Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Covers the theory and installation of a nurse call system. Lessons include: components, ancillary systems, and working in a healthcare environment.

ITSC 115 • COMPUTER LITERACY 1 (MICROSOFT WORD & EXCEL)

Units:	0.5
Hours:	6 lecture, 6 laboratory per quarter (12 total per quarter)
Prerequisite:	Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Covers the fundamentals of Microsoft Word and Excel; how to navigate the software, write, edit, format, create spreadsheets and use formulas.

ITSC 123 • FIRE ALARM ESSENTIALS

Units:	0.5
Hours:	6 lecture, 15 laboratory per quarter (21 total per quarter)
Prerequisite:	Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Covers the essentials of fire alarm systems, including fundamentals, general requirements, fire alarm circuits, and wiring.

ITSC 125 • PAGING SYSTEMS

Units:	0.5
Hours:	6 lecture, 3 laboratory per quarter (9 total per quarter)
Prerequisite:	Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Covers the essentials of paging systems, including functionality, components and how to wire/install.

ITSC 127 • CATV/DAS

Units:	0.5
Hours:	7 lecture, 5 laboratory per quarter (12 total per quarter)
Prerequisite:	Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Covers the basic structure, cabling, tools, connectors and terminations, hardware, headend equipment and testing of a Closed Antenna Television and Distributed Antenna Systems (CATV/DAS) system.

ITSC 128 • NETWORK VIDEO

Units:	1
Hours:	14 lecture, 7 laboratory per quarter (21 total per quarter)
Prerequisite:	Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Covers basic networking, components, and installation of network video systems.

ITSC 130 • **INTRUSION SYSTEMS**

Units: 0.5
Hours: 8 lecture, 4 laboratory per quarter (12 total per quarter)
Prerequisite: Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry.
Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Covers the applicable standards, preventing false alarms, components, wiring and installation of intrusion systems.

ITSC 131 • **ACCESS CONTROL SYSTEMS**

Units: 0.5
Hours: 6 lecture, 3 laboratory per quarter (9 total per quarter)
Prerequisite: Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry.
Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Covers the categories, components, credentials, types of locks, wiring and installation of access control systems.

ITSC 132 • **AUDIO VISUAL ESSENTIALS**

Units: 1
Hours: 12 lecture, 5 laboratory per quarter (17 total per quarter)
Prerequisite: Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry.
Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Covers analog and digital signals, basics of sound, microphones, amplifiers, speakers, video signals, and projection technology.

ITSC 134 • **BLUEPRINTS, LEED, TITLE 24**

Units: 0.5
Hours: 6 lecture, 3 laboratory per quarter (9 total per quarter)
Prerequisite: Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry.
Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Covers reading blueprints, Leadership in Energy and Environmental Design (LEED), and energy efficiency standards.