

ITSC 130: INTRUSION SYSTEMS

Foothill College Course Outline of Record

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

Description

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

Course Objectives

The student will be able to:

- Describe the purpose of an intrusion system and statistics associated with burglary
- Identify the components of an intrusion system
- Identify specifications for magnetic contacts
- Identify various different magnetic contacts and the applications they can be used for
- Describe the difference between a closed loop and an open loop configuration
- Identify various types of motion detectors

Course Content

- Introduction (Lec)
 - What is an intrusion system?
 - Types of systems used today
- Applicable Standards (Lec)
 - NFPA 70
 - NFPA 72
 - NFPA 730
 - NFPA 731
- Fundamentals (Lec)
 - Protection strategies
 - Intrusion system monitoring
 - Detection/wiring configurations
 - False alarms
- Sensors and Input Devices (Lec)
 - Magnetic contact design
 - Types of magnetic contacts
 - Motion detectors
 - Glass break detectors

- Control Panels and Keypads (Lec)
 - Panel connections
 - Keypads
- Hands-on Intrusion Lab (Lab)
 - Build small scale intrusion system

Lab Content

- Work individually and in teams with basic tools of the trade, test instruments and tool safety.
- Included will be the installation of sound and/or communication devices.
- Equipment safety and safe handling practices are reviewed and applied.

Special Facilities and/or Equipment

- Intrusion cabling and equipment for hands-on lab.
- When taught via Foothill Global Access, on-going access to email software and hardware; email address.

Method(s) of Evaluation

Methods of Evaluation may include but are not limited to the following:

- Results of assessments
- Results of quizzes and tests
- Discussion participation

Method(s) of Instruction

Methods of Instruction may include but are not limited to the following:

- Lecture
- Group discussion
- Demonstration
- Lab

Representative Text(s) and Other Materials

Handouts and/or worksheets provided by course instructor.

Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments

A. Reading assignments:

- Read Lesson 10: "False Alarms - What is and what isn't"
- Read Lesson 15 regarding Motion Detectors

B. Writing assignments:

- Describe why false alarms are a major issue with intrusion systems and include methods used to reduce them

2. Explain the difference between a passive and an active motion detector. Include why and where you would use both types of motion detectors

Discipline(s)

Telecommunication Technology