

Class format: Weekly lectures (1hr), weekly reading for homework, station time

Costs: \$14/student for license test

Book: "**Arrl Ham Radio License Manual: All You Need to Become an Amateur Radio Operator**" (~\$25) ("Now You're Talking" or "NYT")

Idea behind class layout- get license ASAP, then have time to do things with it

Homework most weeks- reading applicable parts of "NYT"

To pass the class, students must attend most lectures and pass the license test (pretty easy)

Lectures:

1. Intro to radio
  - 1.1. What is ham radio?
  - 1.2. What can you do with ham radio?
  - 1.3. Where is ham radio used?
  - 1.4. Station tour
2. Radio basics, regulations
  - 2.1. Operating modes
  - 2.2. Block diagrams
  - 2.3. Regulations
3. Propagation and antennas
  - 3.1. Propagation discussion
  - 3.2. Antennas
  - 3.3. Feedline systems
  - 3.4. Antenna safety and RF exposure
4. License test
5. Emergency Communications (Guest speaker?)
6. Modern Ham Radio
  - 6.1. Demonstrate different equipment
  - 6.2. Station tour
  - 6.3. Vehicle installations
  - 6.4. IST 100, 700
7. Station setup
  - 7.1. Tour station
  - 7.2. Set up antennas (Dipole, vertical, buddipole, build a yagi or loop)
8. Discuss Operating Activities
  - 8.1. Satellites (Demo)
  - 8.2. Special event stations
  - 8.3. Weather spotting
  - 8.4. Field days
  - 8.5. Nets
9. Operating Demo
  - 9.1. Set up stations on opposite sides of campus
  - 9.2. Use Packet, PSK, Voice, etc
10. Foxhunt
  - 10.1. Use antennas built at on lecture 7