1. This project is to research tools that explore wireless network.  Student (individually) will research online for freeware/shareware that explore neighboring wifi networks.

Tools can be found for almost all types of devices; laptop/desktop, tablets, and smartphones, and for all popular operating systems.  During the experiment, active wireless networking activity is a must.  Students are welcome to use own or departmental (limited availability) wifi routers.

[Part I] 10 pts, due 7/19 2pm

* 1. Research on your/given router’s default configuration and reset.
  2. Download and experiment applicable freeware/shareware (each for Windows, iOS/OSx, Linux/Android(you should use two or three devices)) that help identify neighboring wifi network; information may include SSID (possibly hidden), channel, security setting, etc.
  3. Presentation of router configuration/reset, and the tools studied and screenshots from experiment.

[Part II] 10 pts, due 7/19 5pm

* 1. Download and experiment applicable freeware/shareware (each for Windows, iOS/OSx, Linux/Android (you should use two or three devices)). that decipher router credentials (e.g. hidden SSID, user id, password).
  2. Presentation of the tools studied and screenshots from experiment.