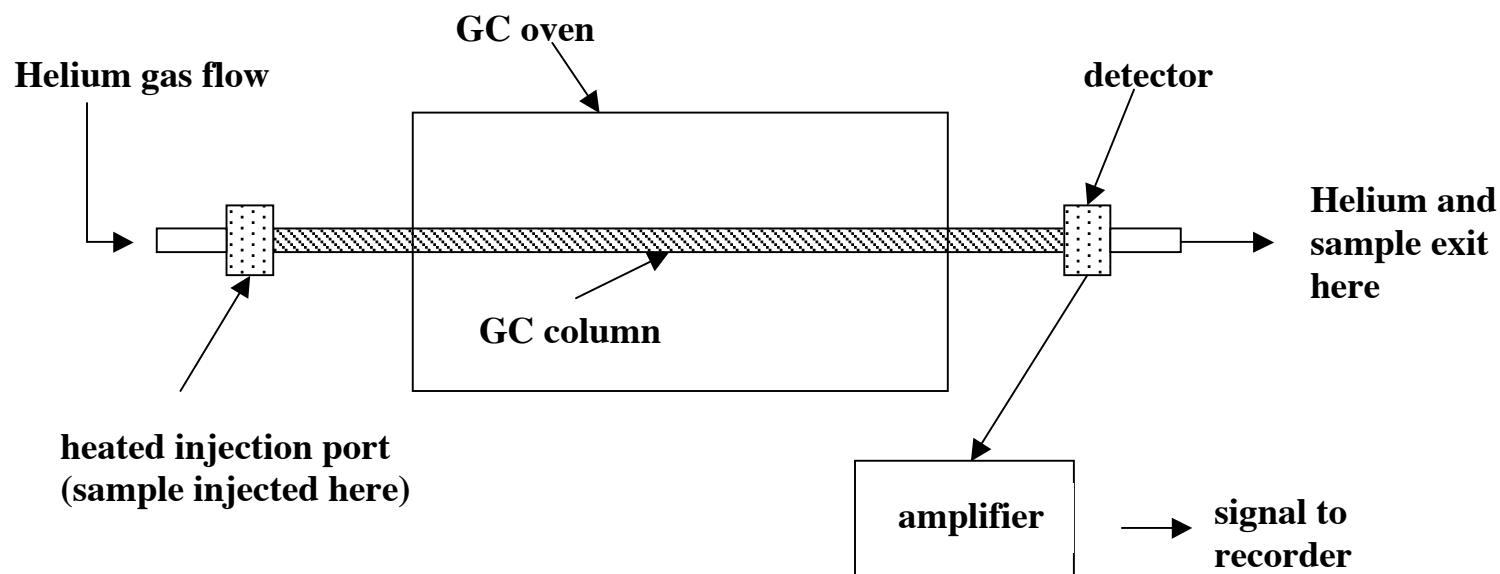


Schematic of a Gas Chromatograph



INJECT SMALL SAMPLE ($\sim 0.1 \mu\text{L} = 0.0001 \text{ mL}$) INTO HOT INJECTOR PORT.

LIQUID VAPORIZES, HELIUM PUSHES PLUG OF SAMPLE VAPOR THROUGH THERMOSTATED COLUMN.

LOWER-BOILING LIQUID PASSES THROUGH MORE QUICKLY THAN HIGHER-BOILING LIQUID. AS VAPOR REACHES DETECTOR, SIGNAL SENT TO AMPLIFIER AND RECORDER DRAWS CHROMATOGRAM.