

### GNEISS AND ECLOGITE

ROCK	FELSICS				MAFICS			NOTES
	Plagioclase	Quartz	K-spar	Muscovite	Garnet	Biotite	Ilmenite	
#87 Sillimanite-Garnet Gneiss	Quartzo-feldspathic matrix - 30%, anh Quartz - gold-smoky, 1.2 mm Feldspar - gray-green, 1.5 - 2.0 mm				Almandine 15%, anh, red, 3 mm, rounded		10%, anh, shiny red-black, 0.5 mm	POOR GNEISSIC LAYERING GRANOBLASTIC Sillimanite - 45%, sbh, white to brown, 2 mm, elongated, fibrous
#89 Augen Gneiss	35%, anh, brown-gray, 3 - 4 mm, Two Dir. cleavage	10%, anh, white- gray, 0.5 mm, rounded, occurs in bands.	38%, anh, pink, 8 -10 mm, oblong, long axis parallel to gneissic layering.			25%, anh, black, < 0.5 mm		FAIR GNEISSIC LAYERING XENOBLASTIC Medium to coarse grained Both plagioclase and biotite display trachytoid behavior around the augen.
#90 Granitoid Gneiss	27 - 37%, anh, yellow to white, 1 mm	10%, anh, smoky, 1 mm	40 - 50%, anh, pink, 1.5 mm					Fine to Moderately grained Magnetite - 10%, anh, black, opaque, < 0.5 mm, appears interstitial Pyrite - 3%, anh -sbh, bronze, 0.5 - 1.5 mm, smaller grains are associated with the magnetite

GLY 4310 LAB 10 Regional Metamorphic Rocks Part 2

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	Plagioclase	Quartz	K-spar	Muscovite	Garnet	Biotite	Omphacite	
#91 Biotite Gneiss	Quartzo-feldspathic matrix - 60%, white to light gray, < 0.5 mm, rounded					40%, anh, black, 0.3 mm, displays foliation in dark discontinuous bands		XENOBLASTIC Gneissic rock with white and black bands of felsics and biotite, respectively.
#92 Eclogite					4%, anh, red-orange, 1 mm, rounded		84%, scattered sbh, 0.5 mm, cleavage faces, majority is massive	Dense GRANOBLASTIC Pyrite - 2%, anh, bronze, 0.5 - 1.0 mm, flaky. One specimen: 15-20% garnet and has a dark green flaky mineral (7%) - probably a green mica. Less feldspar (5%) and omphacite (66-71%).
#97 Hornblende Gneiss	Feldspar - 60-65%, white-gray, 1 mm. - plagioclase, some sercite							Fine grained Moderate gneissic layering