

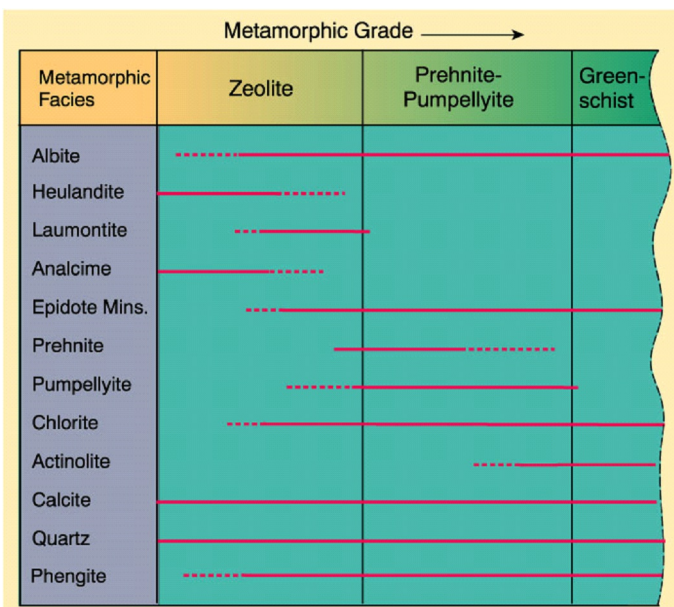
**GEL4050 Igneous and Metamorphic Petrology
HANDOUT - Metamorphic Mineral Facies**

Table 25-1. Definitive Mineral Assemblages of Metamorphic Facies

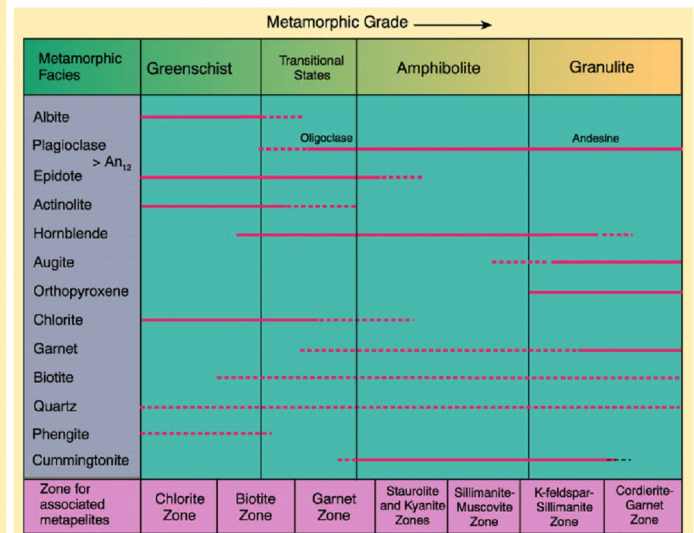
Facies	Definitive Mineral Assemblage in Mafic Rocks
Zeolite	zeolites: especially laumontite, wairakite, analcime
Prehnite-Pumpellyite	prehnite + pumpellyite (+ chlorite + albite)
Greenschist	chlorite + albite + epidote (or zoisite) + quartz ± actinolite
Amphibolite	hornblende + plagioclase (oligoclase-andesine) ± garnet
Granulite	orthopyroxene (+ clinopyroxene + plagioclase ± garnet ± hornblende)
Blueschist	glaucophane + lawsonite or epidote (+albite ± chlorite)
Eclogite	pyrope garnet + omphacitic pyroxene (± kyanite)
Contact Facies	Mineral assemblages in mafic rocks of the facies of contact metamorphism do not differ substantially from that of the corresponding regional facies at higher pressure.

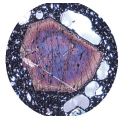
After Spear (1993)

LOW GRADE MINERAL FACIES & MINERALS



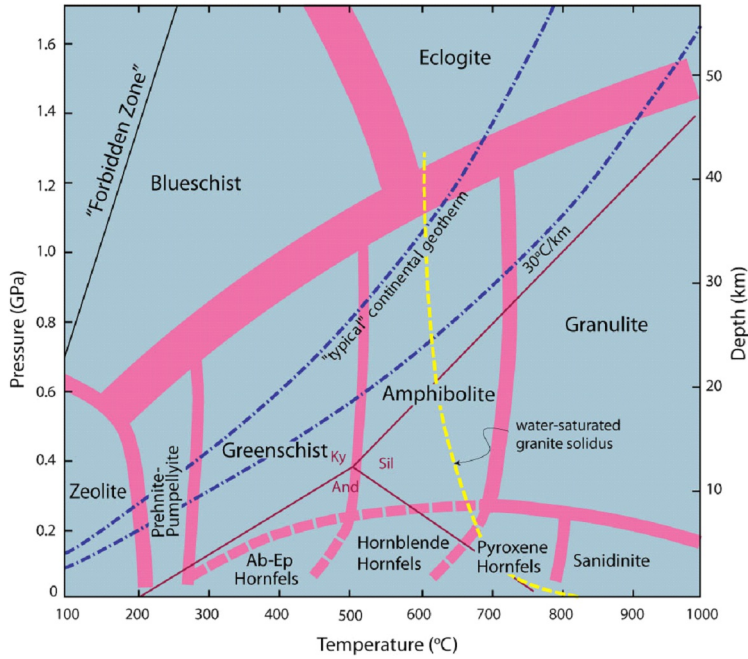
MID GRADE MINERAL FACIES & MINERALS





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Modern Metamorphic Facies Diagram



Petrogenic Grid for Metamorphic Minerals

