

**Salahaddin University
College Of Science
Department of Earth Sciences and Petroleum**

Course Book of Advanced Microfacies : PhD Students

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***Definition of Microfacies**

***Carbonate Diagenesis**

Diagenetic Environments

Classification of Diagenetic Processes

Carbonate Destruction

Cementation

Sparite and Microsparite Terminology

Differentiation of Orthosparite and Pseudospirite

Lithification of Lime Mud

Compaction

Stylolites

***Microfacies Characteristics**

Groundmass and Particles

Micrite

Modes of Origin of Micrite

Limestone Particles

Skeletal Grains

Non-skeletal Grains

***Fossils in Thin Sections**

Key to Identification

***Classification of Carbonate Rocks**

Principles of Classification

Systems of Classification

Folk Classification 1959,1962

**Dunham Classification 1962 expanded by Embry
and Klovan,1972**

***Standard Microfacies Types**

Principles

SMF Types

***SMF types and Facies Belts (Zones)**