

3.069 Ceramics Processing.

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Course Synopsis:

In-depth study of the unit operations in processing technical ceramics and the effect of these operations on the properties of the sintered material. Topics include powder production and conditioning, drying, forming, sintering, and microstructure development. Relevant aspects of transport phenomena, colloid science, and chemistry are discussed, as well as contemporary issues in ceramic composite processing. Case studies involving both electronic and structural ceramics are reviewed.

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