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J.F. Shackelford, *Introduction to Material Science for Engineers*, 8<sup>th</sup> edition.  
Pearson. Ma E

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APPM 1350 or MATH 1300 (minimum grade C). Required co-requisite courses:  
COEN 1300 or ECEN 1310 or CSCI 1300 or CSCI 1310 or CSCI 1320.

A79+42%N?0251,P24 Introduce the fundamental understanding of the relation between composition, structure, processing, and properties of materials. Topics include atomic bonding, perfect and imperfect crystal structures, thermal and mechanical behavior of materials, and failure mechanisms, and heat treatment. This course will provide insight into the design and selection of materials for aerospace applications.

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