

MATERIAL BEHAVIOR AND PERFORMANCE UNDERGRADUATE ACADEMIC CERTIFICATE

This certificate is designed to provide undergraduate students with specialized knowledge and skills in material behavior and performance, which are applicable in several industries (e.g. manufacturing, aerospace, and advanced materials). This certificate program is intended to prepare students for careers in this or related fields, as well as future graduate studies in this field.

All required coursework must be completed with a grade of C or better (O-10-a (<https://catalog.uidaho.edu/general-requirements-academic-procedures/o-miscellaneous/>)).

Code	Title	Hours
Select 12 credits from the following:		12
ME 4150	Materials Selection and Design	
NE 4380	Fundamentals of Nuclear Materials	
ME 4424	Introduction to Aerospace Materials	
ME 4610	Fatigue and Fracture Mechanics	
ME 4660	Compliant Mechanism Design	
ME 4950	Mechanics in Design and Manufacturing	
Total Hours		12

Courses to total 12 credits for this certificate

1 - Attain career advancement in material behavior and performance engineering or related fields based on knowledge and skills gained from the certificate.

2 - Ability to understand and evaluate the performance of engineering materials and use that knowledge to inform product or component design using fundamental engineering principles while following real-world constraints.

3 - Ability to effectively communicate with clients, engineers, or the public on topics related to material behavior and performance and related fields.