

Applications of Ceramic Processing to the Development of UHTC Materials

Aug. 19, 2026 • Colorado School of Mines, Golden, Colo.



Course Agenda

Aug. 19, 2026, 8 a.m.–4:30 p.m. (optional tour to follow)

Time	Topics / Activities	Location
8 – 9 a.m.	Check-in + breakfast (provided)	Marquez Hall Room 226
Morning Session #1 9 – 10:30 a.m.	• Definitions; Overall applications ▪ Microstructure role: fiber composites, monolithic, porous, etc. ▪ Composition, mineralogy, chemistry ▪ Raw materials, size, shape, composition	Marquez Hall Room 226
10:30 – 10:45 a.m.	15-minute break	
Morning Session #2 10:45 – 11:45 a.m.	• Powder processing • Near net shaping and additive manufacturing • Porous structures	Marquez Hall Room 226
12 – 1 p.m.	Lunch (provided)	Marquez Hall Room 335
Afternoon Session #1 1 – 2:45 p.m.	• Thermal processing ◦ Pyrolysis ◦ Sintering and densification	Marquez Hall Room 226
2:45 – 3 p.m.	15-minute break	
Afternoon Session #2 3 – 4:20 p.m.	• Properties and characterization ◦ Mechanical properties ◦ Thermal properties ◦ Chemical stability • Relevant testing • Statistics (Weibull, etc...)	Marquez Hall Room 226
4:20 – 4:30 p.m.	Wrap-up & questions	
4:40 – 5:20 p.m.	Optional tour of the X-STRM LAB (eXtreme STRuctures & Materials LABoratory) by the Lamberson Group at Colorado School of Mines	W305 Brown Hall