

# Standards for Material Testing, Characterization and Applications, Certificate

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A transcribed certificate on standards for material testing, characterization and applications is offered. To fulfill the requirements for this certificate, the student must attend 6 different one-hour seminars, offered through the certificate program, on standards and standardization methods for material testing and characterization, and their appropriate usage in standard engineering design. In addition, the student must complete 12 credit from the following list of courses with a grade of "B" or better in each, along with a Senior Design Project that has significant components on standard (verified by the course instructor/project mentor), to fulfill the requirements for this certificate.

Code	Title	Semester Credit Hours
GEEN 1201	Engineering as a Career	2
MEEN 3145	Material Science Laboratory	1
MEEN 3344	Materials Science	3
MEEN 3349	Fundamentals of Mfg Processes	3
MEEN 4263	Mech Engr Design Proj I (WI)	2
MEEN 4264	Mech Eng Design Projects II	2
MEEN 4382	Polymer Science & Engineering	3
MEEN 4385	Manufacturing of Composites	3
CEEN 3145	Construction Materials Lab	1
CEEN 3244	Construction Materials	2
CEEN/AEEN 3303	Structural Analysis	3
CEEN/AEEN 3304	Reinforced Concrete Design	3
CEEN 3311	Strength of Materials	3
CEEN/AEEN 4279	Design in Civil Engineering I	2
CEEN/AEEN 4289	Design in Civil Eng II (WI)	2
CEEN/AEEN 4316	Structural Steel Design	3