

Certificate on Standards for Material Testing, Characterization and Applications

Undergraduate Application Form

Name:	K#:
Major:	Expected Graduation Date:
Email:	

Requirements to earn the Certificate:

- Attend 6 seminars, offered through the certificate program, on standards and standardization methods for material testing and characterization, and their appropriate usage in standard engineering design.

Seminar 1 - Date Attended:		Seminar 2 - Date Attended:	
Seminar 3 - Date Attended:		Seminar 4 - Date Attended:	
Seminar 5 - Date Attended:		Seminar 6 - Date Attended:	

- Complete 12 credits from the following list of courses with a grade of “B” or better in each (GEEN 1201 - Engineering as a Career; MEEN 3145 - Material Science Laboratory; MEEN 3344 - Materials Science; MEEN 3349 - Fundamentals of Manufacturing Processes; MEEN 4263 and 4264 - Senior Design Project; MEEN 4382 - Polymer Science & Engineering; MEEN 4385 - Manufacturing of Composites; CEEN 3145 - Construction Materials Lab; CEEN 3244 - Construction Materials; CEEN/AEEN 3303 - Structural Analysis; CEEN/AEEN 3304 - Reinforced Concrete Design; CEEN 3311 - Strength of Materials; CEEN/AEEN 4279 and 4289 – Senior Design Project; CEEN/AEEN 4316 - Structural Steel Design).

Enter grade and semester for courses taken from the above listing:

Course	Semester	Grade	Course	Semester	Grade
GEEN 1201			CEEN 3145		
MEEN 3145			CEEN 3244		
MEEN 3344			CEEN/AEEN 3303		
MEEN 3349			CEEN/AEEN 3304		
MEEN 4263			CEEN 3311		
MEEN 4264			CEEN/AEEN 4279		
MEEN 4382			CEEN/AEEN 4289		
MEEN 4385			CEEN/AEEN 4316		

- Senior Design Project that has significant components on standards (verified by the course instructor and certificate program director). See Page 2 for definition of “significant components on standards”.

Senior Design Project Title & Description:

Senior Design Instructor Name: _____

Student Signature: _____ **Date** _____

Please email the completed form to Dr. Mohammad Hossain (Mohammad.Hossain@tamuk.edu)

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Significant Work on Standards/Codes Form

A Senior Design Project will be considered as “having a significant amount of Standards/Codes-related content” when the project and documentation include the design or manufacturing/construction or characterization of one or more systems, components, or experimental processes using Standards/Codes.

The senior design project proposal (as required by the instructor/ advisor/Grad Studies), approved by the instructor or advisor, and one of the supervisors of this program (Dr. Hossain, Dr. Bailey, or Dr. Peel) must discuss the standards/codes to be used in the project. The proposal should include what Standards or Codes are likely to be used and how they are integral to and would advance the project. If there are no relevant Standards or Codes, state the process for developing new Standards or Codes and show how the project will help develop some possible Standards and Codes and to which organization they will be submitted to. This document must be submitted by the student’s respective Graduation Application Deadline to either Dr. Hossain, Dr. Bailey, or Dr. Peel.

The final report must be approved by the same two individuals as the proposal and should discuss in depth what Standards/Codes were used, how they were used, and how those were different than given specifications from a customer/instructor/advisor/funder, etc. If new Standards or Codes were proposed, they should be discussed in detail, and also how they were (or, are planned to be) submitted to the appropriate organization, and the feedback that was given. The deadline for the report is one day after the Senior Design Project deadline, and should be sent to the same two people that approved the proposal.

Examples of Standards or Codes that might be used are: ASCE Building Codes, ASTM testing Standards, ISO testing standards, ASME Boiler or Pressure Vessel Codes.

Examples of where Standards or Codes might not exist, but could be proposed include: Building Codes for 3D-Printed concrete houses, or Test Standards for multi-material polymer-based 3D -Printed components.

Senior Design Project Proposal Approval Date _____

Instructor Signature _____

Program Supervisor Signature _____

Final Thesis/Project Title _____

Final Senior Design Report Approval Date _____

Instructor Signature _____

Program Supervisor Signature _____

Please deliver completed forms to Dr. Mohammad Hossain (Mohammad.Hossain@tamuk.edu)