TUSKEGEE UNIVERSITY COLLEGE OF ENGINEERING
MINOR IN MATERIALS SCIENCE AND ENGINEERING

Program: Minor in Materials Science and Engineering

Curriculum: The curriculum is designed to educate and provide hands on experience to students on new and better materials for the next generation of engineering applications. It views the fundamentals of biomaterials, nanomaterials, polymers, composites, metals and electronic materials.

Certificate Requirement: Students must complete eighteen credits (nine credits of core, and nine electives) with a grade C or better. For many students, elective requirements may have already been completed as part of their major degree requirements.

Required Core Courses (9 credits)
1. MSEG 0401/MSEG 0501: Materials and Society (3 cr.)
2. MSEG 0402/MSEG 0502: Introduction to Biomaterials Science and Engineering (3 cr.)
3. MSEG 0491/MSEG 0591: Research in Materials Science and Engineering (3 cr.)

List of Courses Considered for Elective (9 credits)
4. CHEM 0231: Chemistry I (3 cr.);
5. CHEM 0233: Chemistry II (3cr.);
6. MATH 0207: Calculus I (3cr.);
7. MATH 0208: Calculus II (3cr.);
8. MATH 0209: Calculus III (3 cr.);
9. MATH 0307: Differential Equation (3 cr.);
10. MENG 0211: Statics (3 cr.);
11. MENG 0310: Experimental Mechanics Lab. (1cr.);
12. MENG 0316: Strength of Materials (3 cr.);
13. MENG 0318: Materials Engineering (3 cr.);
14. MENG 0319: Materials Engineering Lab. (1 cr.);
15. PHY 0310: Physics I (3 cr.);
16. PHY 0311: Physics II (3cr.).

Who should apply: A US Citizen rising junior enrolled full time in a STEM discipline with a minimum GPA of 3.0 (exception will be given to rising senior students who have at least 2 semesters to complete their major degree requirements)

How to apply: Submit/email application form describing STEM career goals along with unofficial transcript to:

- Dr. Shaik Zainuddin, Associate Professor of Materials Science & Engineering, szainuddin@tuskegee.edu
- Ms. Carol Banks, Project Manager, cbanks@tuskegee.edu
TO ALL STEM UNDERGRADUATE Sophomores/Juniors

For additional Information, contact one of the following:

Ms. Carol Banks, Project Manager, 334-724-4230 cbanks@tuskegee.edu
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