Graduate Admission Policy for Materials & Metallurgical Engineering Dept.

Policy for Admission into the Materials M.Sc. Program

1. A complete application must be submitted to the graduate office.

2. Regarding the Graduate Record Exam (GRE):
   All M.Sc. applicants must take the GRE and score in the upper 50% (above 150 according to the new scale and 650 according to old scale) for admission into the M.Sc program. Applicants who score in the lower 50% may be re-considered for admission on a per student basis.

   Applicants who are currently students in or have graduated from the New Mexico Tech Materials & Metallurgical Engineering Department may request to have the GRE requirement waived, and they will be considered on a per student basis.

   Distance Education students who have >3.5 GPA on their NMT distance education classes may request to have the GRE requirement waived, and they will be considered on a per student basis. However, they are strongly advised to take the GRE to simplify the admission process.

Policy for Admission into the Materials Ph.D. Program

1. A complete application must be submitted to the graduate office.

2. Regarding the Graduate Record Exam (GRE):
   All Ph.D. applicants must take the GRE and score in the upper 50% (above 150 according to the new scale and 650 according to old scale). Applicants who score in the lower 50% may be re-considered for admission on a per student basis.

   Distance Education student must take the GRE in order to be admitted to the Ph.D. program. If due any reason, they can not take the GRE prior to their admission, they will remain as temporary students until their GRE requirement is met. They cannot participate in preliminary and candidacy examinations before completing the GRE requirement.
Policy Requirements for the **Master of Science in Materials Engineering** for the Materials and Metallurgical Engineering Department  
New Mexico Tech, Socorro, NM  87801

1. Select an advisory committee that shall consist of the advisor and at least two additional members. Regular Materials faculty shall not be the minority on the advisory committee. The student should meet with his or her committee at least once per year. The selection of formal academic adviser, research adviser, and the Masters committee must be completed by the end of the second semester for full-time in-house students, and immediately after completing 12 credit hours for DE students.

2. Complete Thirty (30) Credit Hours with either a M.Sc. Thesis or a M.Sc. Independent Study.

**M.Sc. Thesis Option:** Minimum 24 credit hours of course work plus 6 credit hours of MATE 591 Thesis. The course work must include a minimum of 12 credit hours of 500 level courses, and at least 6 hours of upper level (300, 400 or 500) courses outside the Materials department, unless the student is from a non-Materials background. Only 3 hours of MATE 581 Directed Study will be accepted. MATE 500 (Directed Research) may be taken in multiple semesters but these credits do not count towards the 24 hours of course work. Course work counting toward the 24 credit hour requirements must be approved by the advisory committee, and the research must be directed towards a journal publication.

**M.Sc. Independent Study Option:** Minimum 27 credit hours of course work plus 3 credit hours of MATE 590 Independent Study. The course work requirements are the same as for the above M.Sc. Thesis, with the exception that a minimum of 15 credit hours of 500 level courses are required instead of 12.

3. A full-time graduate student must be enrolled for a minimum of 9 credit hours per regular semester (12 hr if supported) and 6 credit hours during the summer. At graduation, the cumulative GPA should be 3.0 or better with no grades below a C.

4. Students should write a thesis proposal or independent study proposal and defend it in a public oral defense before the advisory committee at least one full semester (fall or spring) before the final presentation.

5. The final thesis or independent study must be defended in a public oral defense before the advisory committee.

Additional requirements are described in the New Mexico Tech catalog under the Graduate Degree Requirements.
Requirements for the Doctor of Philosophy in Materials Engineering for the Materials & Metallurgical Engineering Department
New Mexico Tech, Socorro, NM  87801

Policies and requirements:

Select an advisory committee that shall consist of the advisor and at least two additional members. Regular Materials faculty shall not be the minority on the advisory committee. The student should meet with his or her committee at least once per year. The selection of formal academic adviser, research adviser, and the Masters committee must be completed before the third semester for full-time in-house students; immediately after completing 12 credit hours for DE students.

Complete at least 24 credit hours of courses approved by the doctoral committee, including:
(i) At least 12 hours of 500 level courses. (ii) At least 6 hours of 300 + level courses outside the department, unless the student is from a non-Materials background. No more than 3 hr of MATE 581 Directed Study may be used for fulfilling the course requirements. Students may take MATE500 (Directed Research) in multiple semesters but the credits may not count towards their degree requirements. MATE595 (Dissertation) credits cannot be taken before a student passes the qualifying examinations. No single class may be used for both the MS and the PhD degrees.

Conduct a written and oral critique of a paper (or papers) published in a high quality professional journal. The paper choice shall be agreed on by the doctoral committee. The paper may be related to the student’s dissertation topic, but not redundant. This paper critique is the Materials Department’s "preliminary" examination. This is the first qualifying examination that a student has to pass.

Write a research proposal and defend it in a public oral defense at least two full semesters (fall and spring) before final dissertation presentation. This proposal defense is the Materials Department "candidacy" exam, and should address the rationale for research plan and preliminary work in progress. This examination can only be taken after a student has passed the preliminary examination.

5. Enroll in at least 24 hr of MATE 595 "Dissertation" during which the student completes the research project approved by his or her doctoral committee. The student cannot start MATE 595 until both the preliminary exam (paper critique) and the candidacy exam (proposal defense) have been successfully passed.

6. A full-time graduate student must be enrolled in a minimum of 9 credit hours per regular semester (12 hours if supported) and 6 credit hours during the summer.

7. Submit at least one paper based on the dissertation to a recognized journal acceptable to the doctoral committee. It is preferable that this paper be published.
8. Write the final dissertation and defend it in an oral public defense before the doctoral committee.

Additional requirements include the New Mexico Tech general graduate program requirements.