MATERIALS SCIENCE M.S.
All students must meet the Requirements for the Master’s Degree

OVERVIEW
Students must engage in research and defend a thesis and complete a comprehensive exam.

SPECIFIC REQUIREMENTS

Requirements for Admission to Graduate Studies for the Degree of Master of Science
A bachelor’s degree in physics, chemistry, metallurgy, engineering, materials science, or mathematics. Applicants with other backgrounds will be evaluated individually.

Minimum Degree Requirements
The above requirements for admission must be supplemented in either of the following ways:

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<tr>
<th>Option</th>
<th>Requirements</th>
<th>Credits</th>
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<tbody>
<tr>
<td>A (Thesis)</td>
<td>Thirty graduate credits of an approved program of study including at least eighteen credits of course work; completion of at least one three-credit course in each of the following categories: solid state theory, quantum mechanics, applied mathematics, and materials properties of solids; satisfactory completion of a comprehensive examination; and satisfactory completion of an M.S. thesis including its defense at an oral examination</td>
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<tr>
<td>B (Non-thesis)</td>
<td>Thirty graduate credits of an approved program of study; completion of at least one three-credit course in each of the following categories: solid state theory, quantum mechanics, applied mathematics, and materials properties of solids, and satisfactory completion of a comprehensive examination</td>
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Comprehensive Examination
Full-time Materials Science M.S. candidates are required to pass a written Comprehensive (Qualifying) Exam with a score of 50% or better, no later than four semesters after joining the program. Failure to pass the test will result in dismissal from the program. The deadline for part-time students is the semester they complete 24 credits. All students (full and part-time) are allowed a maximum of two attempts to pass the exam. Offered annually, the three-hour exam requires students to solve a minimum of four problems that cover the following topics: quantum mechanics, mathematical physics, mechanical behavior of materials, thermal physics, solid state physics, advanced inorganic chemistry or equivalent core course requirements.

Requirement for Advancement to Candidacy for the Degree of Master of Science
Successful completion of a comprehensive examination in Materials Science.