Applied Physical Science M.S.A.P.S. (Thesis)

Degree Requirements: 30 Credit Hours (Thesis)

Admission

Students are selected for the Master of Science in Applied Physical Science degree program on a competitive basis. Meeting minimum requirements does not guarantee admission.

Admission Requirements

Regular

1. B.S. or B.A. degree in chemistry, physics, or related degree from an appropriate regionally accredited college or university, or an equivalent degree from a recognized foreign college or university. Official TOEFL scores (not more than two years old) required for international students.
2. An overall minimum cumulative GPA of 2.75 on a 4.0 scale or at the discretion of the graduate admission committee.
3. Official GRE Report showing competitive subtest scores by the start of the first semester of graduate courses.
4. Two Letters of Recommendation from individuals familiar with the applicant's potential to complete successful graduate work.
5. Applicant's Statement of Purpose & Research Experience, which must address
   a. the student's preparation and research experiences for graduate study,
   b. the student's goals for the graduate program, potential concentration area, and possible advisor (for thesis option), and
   c. the student's professional goals following completion of the M.S.A.P.S. program
6. The applicant must have the appropriate undergraduate preparation for the area of concentration. This requires meeting the general M.S.A.P.S. requirements and the prerequisites listed for the particular concentration area.

Provisional

Applicants who do not meet the admission requirements may be admitted provisionally. To be converted to regular status, provisional students must take any appropriate undergraduate courses as recommended by the graduate committee and must earn a “B” or higher in their first nine (9) credits of coursework approved by the graduate director.

Non-Degree

Non-degree students are accepted on an individual basis as space is available. Applicants must have a minimum cumulative GPA of 2.75 on a 4.0 scale and submit a Statement of Purpose and Research Experience.

Grades

Students are required to maintain a cumulative GPA of at least 3.0 to remain in good academic standing and to be eligible to graduate. In the event the cumulative GPA falls below 3.0, the student will be placed on academic probation. Students have nine (9) credits to elevate the cumulative GPA to at least 3.0 or will be excluded from the program. Students earning grades of “F” will also be excluded from the program.

Program Concentrations

The Master of Science in Applied Physical Science degree Thesis program provides concentrations in Environmental Science, Pharmaceutical Science, or Materials and Coatings Science.

A maximum of twelve (12) credits at the 5000 level are allowed for the Master of Science in Applied Physical Science degree.

Environmental Science Concentration

<table>
<thead>
<tr>
<th>Core Requirements</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CHEM 6130 Industrial Science</td>
<td>3</td>
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<tr>
<td>CHEM 6230 Scientific Inquiry and Ethics</td>
<td>3</td>
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<tr>
<td>CHEM 7630 Graduate Seminar</td>
<td>3</td>
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<tr>
<td>or PHYS 7630 Graduate Seminar</td>
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<tr>
<td>CHEM 7999 Thesis</td>
<td>1-3</td>
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<tr>
<td>or PHYS 7999 Thesis</td>
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<tr>
<td>PUBH 6541 Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 5531G Statistical Methods I</td>
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</tbody>
</table>

Concentration Requirements

PHYS 7330 Principles and Practice of Pre-clinical Drug Development

Concentration Elective courses at or above the 5000 level - as contracted with the faculty advisor and degree coordinator

Total Credit Hours 30

Pharmaceutical Science Concentration

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<td>or STAT 5531G Statistical Methods I</td>
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Concentration Requirements

PHYS 7330 Principles and Practice of Pre-clinical Drug Development

Concentration Elective courses at or above the 5000 level - as contracted with the faculty advisor and degree coordinator

Total Credit Hours 30

Material and Coatings Science Concentration

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<tr>
<td>CHEM 6230 Scientific Inquiry and Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>
CHEM 7630  Graduate Seminar 3
or PHYS 7630  Graduate Seminar
CHEM 7999  Thesis 1-3
or PHYS 7999  Thesis
PUBH 6541  Biostatistics 3
or STAT 5531G  Statistical Methods I

Concentration Requirements
CHEM/PHYS 6131  Solid State Materials 3
Concentration Elective courses at or above the 5000 level - as contracted with the faculty advisor and degree coordinator 12

Total Credit Hours 30

Thesis
Each Candidate for the Master of Science in Applied Physical Science degree, thesis option, must complete a thesis on a subject approved by the graduate thesis committee. The major professor supervises the research, directs the writing of the thesis, and approves the thesis in its final form. Prior to the final approval, the thesis is read by the thesis committee. One member, termed the second reader, has the responsibility for an intensive and rigorous criticism of the thesis, and a third member of the thesis committee has the responsibility of an “editorial reader.” Both second and third readers must report all comments to the major professor. The thesis must be defended in an oral examination before the graduate committee prior to final approval and sign-off.

The style and format for the completed thesis shall follow that prescribed by the Director for the Master of Science in Applied Physical Science degree. Procedural steps in the preparation of the thesis are as follows:

• The prospectus for the thesis shall be submitted to the major professor and thesis committee for approval.
• The student must prepare the thesis for electronic submission following the latest version of the Electronic Thesis and Dissertation (ETD): Student Guide to Preparation and Processing manual.
• The thesis must be electronically submitted to the ETD site for format check by the ETD format check submission deadline as stated in the University Calendar.
• The final corrected thesis must be electronically submitted to the ETD site by the ETD format check submission deadline as stated in the University Calendar. The final document must be electronically approved by the Thesis Committee.


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