Applied Physical Science M.S.A.P.S (Professional Science Master)

Degree Requirements: 36 Credit Hours

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 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>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 6130 Industrial Science</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 6230 Scientific Inquiry and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 6730 Master of Science in Physical Science Internship or PHYS 6730 Master of Science in Physical Science Internship</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
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<tr>
<td>CISM/MGMT 7431 Project Management</td>
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<tr>
<td>MKTG 7431 Strategic Marketing Management</td>
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<tr>
<td>PUBH 6534 Health Policy and Management</td>
<td></td>
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<tr>
<td>or substitution approved by Program Director</td>
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</tbody>
</table>

Select one of the following:                          3

| BUSA 7130 International Business                       |              |
| BUSA 7530 Global Business Strategy                     |              |
| MGNT 7330 Leadership and Motivation                    |              |
| or substitution approved by Program Director           |              |

Select two of the following:                           6

| ACCT 7134 Financial Reporting and Analysis            |              |
| CHEM 6530 Professional Science Communication          |              |
| PUBH 6541 Biostatistics                               |              |
| STAT 5531G Statistical Methods I                       |              |

Concentration Requirements                               15

| CHEM 5110G Environmental Chemistry                    |              |

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

Total Credit Hours 36

Pharmaceutical Science Concentration

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<td>PUBH 6534 Health Policy and Management</td>
<td></td>
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</tbody>
</table>
or substitution approved by Program Director

Select one of the following:

- BUSA 7130  International Business
- BUSA 7530  Global Business Strategy
- MGMT 7330  Leadership and Motivation

or substitution approved by Program Director

Select two of the following:

- ACCT 7134  Financial Reporting and Analysis
- CHEM 6530  Professional Science Communication
- PUBH 6541  Biostatistics
- STAT 5531G  Statistical Methods I

**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 36

### Material and Coatings Science Concentration

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</tr>
<tr>
<td>or PHYS 6730  Master of Science in Physical Science Internship</td>
</tr>
</tbody>
</table>

Select one of the following:

- CISM/MGMT 7431  Project Management
- MKTG 7431  Strategic Marketing Management
- PUBH 6534  Health Policy and Management

or substitution approved by Program Director

Select two of the following:

- BUSA 7130  International Business
- BUSA 7530  Global Business Strategy
- MGMT 7330  Leadership and Motivation

or substitution approved by Program Director

Select one of the following:

- ACCT 7134  Financial Reporting and Analysis
- CHEM 6530  Professional Science Communication
- PUBH 6541  Biostatistics
- STAT 5531G  Statistical Methods I

**Concentration Requirements**

- PHYS/CHEM 6131  Solid State Materials

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

Total Credit Hours 36

### Accelerated Bachelor’s to Master’s in Applied Physical Science

 Admission:

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

**Admission Requirements:**

1. Student must complete a minimum of 24 semester credit hours in their major courses for either a biology, biochemistry, chemistry, physics, or geology degree.
2. Student must have a minimum GPA of 3.25 overall in their major courses or at the discretion of the graduate admissions committee.
3. Two letters of recommendation from individuals familiar with the applicant’s potential to complete successful graduate work

**Program Requirements:**

In accordance with SACSCOC requirements, 120 unique credit hours are required in a Bachelors degree program, and at least 30 unique credit hours are required in a Masters degree program. The MSAPS-PSM-ABM program combines 124 hours from the BS Biology, BS Biochemistry, BS Chemistry, BS Geology or BS Physics program and 36 hours from the MSAPS-APS program, exceeding the required 150 unique hours between undergraduate and graduate degree programs by 10 hours. The Jack N. Averitt College of Graduate Studies Handbook for Program Directors and Graduate Advisors permits a maximum of 9 shared credit hours between the undergraduate and graduate degree programs. Therefore, MSAPS-APS-ABM students may share a maximum of 9 credit hours of Masters level courses (5000G-8000) in satisfying the requirements of both degree programs.

**Grades:**

Students are required to maintain a cumulative GPA of at least a 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 will 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.

**Advisement**

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