BACHELOR OF SCIENCE (BS) DEGREE WITH A MAJOR IN CHEMICAL PHYSICS

Program Learning Outcomes for the BS Degree with a Major in Chemical Physics

Upon completing the BS degree with a major in Chemical Physics, students will be able to:

1. Demonstrate a solid foundation of knowledge in chemistry as applicable to chemical physics.
2. Demonstrate a solid foundation of knowledge in physics as applicable to chemical physics.
3. Critically analyze challenging scientific and technical problems as encountered in chemical physics.
4. Read basic scientific literature and communicate scientific results via relevant channels.

Requirements for the BS Degree with a Major in Chemical Physics

For general university requirements, see Graduation Requirements (https://ga.rice.edu/undergraduate-students/academic-policies-procedures/graduation-requirements/). Students pursuing the BS degree with a major in Chemical Physics must complete:

- A minimum of 73 credit hours to satisfy major requirements.
- A minimum of 120 credit hours to satisfy degree requirements.
- A minimum of 33-35 credit hours, depending on course selection, taken at the 300-level or above.

The Chemical Physics major is offered jointly by the Department of Chemistry and the Department of Physics and Astronomy. Students take upper-level courses in both chemistry and physics, focusing on the applications of physics to chemical systems. Students may obtain credit for some courses by advanced placement, and the program's undergraduate committee can modify requirements to meet the needs of students with special backgrounds.

The courses listed below satisfy the requirements for this major. In certain instances, courses not on this official list may be substituted upon approval of the major's academic advisor, or where applicable, the department's Director of Undergraduate Studies. Course substitutions must be formally applied and entered into Degree Works by the major's Official Certifier (https://registrar.rice.edu/facstaff/degreeworks/officialcertifier/). Students and their academic advisors should identify and clearly document the courses to be taken.

Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Total Credit Hours Required for Major in Chemical Physics</td>
<td>73</td>
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<tr>
<td>Total Credit Hours Required for the BS Degree with a Major in Chemical Physics</td>
<td>120</td>
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Bachelor of Science (BS) Degree with a Major in Chemical Physics

Degree Requirements

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<th>Code</th>
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Core Requirements

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<th>Credit Hours</th>
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Select 1 from the following:

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<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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Requirements for the BS Degree with a Major in Chemical Physics

Physics

Select 1 from the following:

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<th>Title</th>
<th>Credit Hours</th>
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Summary

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<th>Credit Hours</th>
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Mathematics

Select 3 courses from the following:

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<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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Elective Requirements

Advanced Coursework in Physics and Chemistry

Select 3 courses from the following:

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<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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Policies for the BS Degree with a Major in Chemical Physics

Program Restrictions and Exclusions
Students pursuing the BS Degree with a Major in Chemical Physics should be aware of the following program restrictions:

- Students pursuing the major in Chemical Physics may not declare the BA degree with a major in Physics.
- Students pursuing the major in Chemical Physics may not declare the minor in Physics.

Transfer Credit
For Rice University's policy regarding transfer credit, see Transfer Credit (https://ga.rice.edu/undergraduate-students/academic-policies-procedures/transfer-credit/). Some departments and programs have additional restrictions on transfer credit. The Office of Academic Advising maintains the university's official list of transfer credit advisors (https://oaa.rice.edu/advising-network/transfer-credit-advisors/) on their website: https://oaa.rice.edu. Students are encouraged to meet with their academic program's transfer credit advisor when considering transfer credit possibilities.

Program Transfer Credit Guidelines
Students pursuing the major in Chemical Physics should be aware of the following program-specific transfer credit guidelines:

- Requests for transfer credit will be considered by the program director (and/or the program's official transfer credit advisor) on an individual case-by-case basis. For more information, please see https://chemistry.rice.edu/transfer-credit/.

Additional Information
For additional information, please see the following department websites:

- Chemistry: https://chemistry.rice.edu/ (https://chemistry.rice.edu)
- Physics and Astronomy: https://physics.rice.edu/

Opportunities for the BS Degree with a Major in Chemical Physics

Academic Honors
The university recognizes academic excellence achieved over an undergraduate's academic history at Rice. For information on university honors, please see Latin Honors (https://ga.rice.edu/undergraduate-students/honors-distinctions/university/) (summa cum laude, magna cum laude, and cum laude) and Distinction in Research and Creative Work (https://ga.rice.edu/undergraduate-students/honors-distinctions/university/). Some departments have department-specific Honors awards or designations.

Additional Information
For additional information, please see the following department websites:

- Chemistry: https://chemistry.rice.edu/
- Physics and Astronomy: https://physics.rice.edu/