CHEMICAL PHYSICS

http://www.chemistry.illinois.edu

Head of the Department of Chemistry: Gregory S. Girolami
Head of the Department of Physics: Dale Van Harlingen

Students with undergraduate degrees in chemistry should direct inquiries
and applications to the Department of Chemistry
106 Noyes Laboratory
505 South Mathews Avenue, Urbana, IL 61801.

Students with undergraduate degrees in physics should direct inquiries
and applications to the Graduate Advising Office, Department of Physics
227 Loomis Laboratory of Physics
1110 West Green Street, Urbana, IL 61801-3080

Major: Chemical Physics
Degree Offered: Ph.D.

Graduate Degree Programs

A chemical physics program leading to the Doctor of Philosophy makes
it possible for students to gain the necessary background and perform
original research in this interdisciplinary field of science. Fundamental
research on many properties of molecular and solid-state systems is
based on an understanding of chemistry, physics, and mathematics that
can best be obtained by training in more than one department. Students
may use the facilities in both the School of Chemical Sciences and the
Department of Physics.

Admission

Applicants who have fulfilled the usual undergraduate course
requirements, including at least 25 semester hours in chemistry (properly
distributed) and a grade point average of 3.0 (A = 4.0), may be considered
for admission to the graduate programs. Applications from students
with less than the usual preparation in chemistry or with grade point
averages below 3.0 may be considered on an individual basis. In addition,
applicants must submit results from the Graduate Record Examination
general test and the Graduate Record Examination chemistry subject
test.

International students whose native language is not English are required
to have a minimum paper-based TOEFL score of 580 (237 on the
computer-based test). In addition, teaching is a requirement in the
Chemistry graduate program and there are special requirements for
applicants whose native language is not English. The University requires
a minimum TOEFL iBT speaking score of 24 for a contact teaching
assistant appointment. Any applicant whose native language is not
English is expected to provide TOEFL scores in order to receive full
consideration for admission and financial aid.

Please contact chemistry graduate admissions for further information.

Financial Aid

Students may apply for fellowships and assistantships from either the
Department of Chemistry or the Department of Physics.

Doctor of Philosophy in Chemical Physics

Students entering through the Department of Chemistry must satisfy
the registration examination, literature seminar, preliminary examination,
and original research proposal requirements of Physical Chemistry. The
guidelines for these requirements are in the Department of Chemistry
Graduate Manual. Students entering through the Department of Physics
must satisfy the PhD requirements of the Department of Physics.
Research for the thesis is performed under the direction of faculty
members who are currently active in chemical physics. Many of these
staff members are affiliated with the Materials Research Laboratory
(MRL). MRL is a multidisciplinary facility shared by staff and students
from the Departments of Physics, Chemistry, Materials Science and
Engineering, Electrical and Computer Engineering, and other related
departments that have common interests in materials science.

Entering with approved M.S./M.A. degree

<table>
<thead>
<tr>
<th>Required courses</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 599 Thesis Research (min 0 applied toward degree)</td>
<td>0</td>
</tr>
</tbody>
</table>

Total Hours 64

Other Requirements

Other requirements may overlap

Qualifying Exam Required: Yes
Preliminary Exam Required: Yes
Original Research Proposal: Yes
Final Exam/Dissertation Defense Required: Yes
Dissertation Deposit Required: Yes
Minimum GPA: 3.0

Entering with approved B.S./B.A. degree

<table>
<thead>
<tr>
<th>Required courses</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 599 Thesis Research (0 min applied toward degree)</td>
<td>0</td>
</tr>
</tbody>
</table>

Total Hours 96

Other Requirements

Other requirements may overlap

Qualifying Exam Required: Yes
Preliminary Exam Required: Yes
Original Research Proposal: Yes
Final Exam/Dissertation Defense Required: Yes
Dissertation Deposit Required: Yes
Minimum GPA: 3.0

1 For additional details and requirements refer to the
department's Graduate Programs (http://www.chemistry.illinois.edu/
research/chemphys) and the Graduate College Handbook (http://
www.grad.illinois.edu/gradhandbook).

Information listed in this catalog is current as of 06/2016