

Chemistry Education Majors checklist
Bachelor of Arts in Chemistry and Certification in Chemistry Teaching

For graduation, you need to satisfy the following requirements. This checklist summarizes some of the information in the IUPUI Bulletin (<http://bulletin.iupui.edu>). **Please consult your advisor regularly to be sure you are meeting all requirements for graduation.**

General Education (16 credit hours*)

- SCI I120 Windows on Science (1 cr.)
- ENG W131 or ENG W140 English Composition I (3 cr.) Choice: _____
- Second composition course, e.g., ENG W132 or TCM 320 (3 cr.) Choice: _____
- COMM R110 Fundamentals of Speech Communication (3 cr.)
- HIST H114 History of Western Civilization II (3 cr.)
- List C course. (See the bulletin for a complete list of options.) (3 cr.) Choice: _____

Foreign Language (10 credit hours)

- Foreign language courses, e.g., SPAN S117, S118 and S119 or ASL A131 and A132 or demonstrated first-year proficiency in a foreign language (special credit test) Choices: _____

Mathematics[^] and Computer Science (9 or 10 credit hours)

- MATH 231 Calculus for the Life Sciences I (3 cr.)
- MATH 232 Calculus for the Life Sciences II (3 cr.)
- Computer science elective, e.g., CSCI N201, CSCI N305, CSCI N331, or CSCI 230 Choice: _____

Science courses outside chemistry (18 or 20 credit hours, all courses with labs)

- PHYS P201 General Physics I (5 cr.)
- PHYS P202 General Physics II (5 cr.)
- Science elective sequence (Either BIOL K101 and K103 or GEOL G109/G119 and GEOL G110/G120) Choices: _____

Chemistry courses (31 credit hours)#

- CHEM C105 Principles of Chemistry I (3 cr.)
- CHEM C125 Experimental Chemistry I (2 cr.)
- CHEM C106 Principles of Chemistry II (3 cr.)
- CHEM C126 Experimental Chemistry II (2 cr.)
- CHEM C341 Organic Chemistry I (3 cr.)
- CHEM C343 Organic Chemistry Laboratory I (2 cr.)
- CHEM C342 Organic Chemistry II (3 cr.)
- CHEM C344 Organic Chemistry Laboratory II (2 cr.)
- CHEM C310 Analytical Chemistry Lecture (2 cr.)
- CHEM C311 Analytical Chemistry Laboratory (1 cr.)
- CHEM C360 Elementary Physical Chemistry (3 cr.)
- CHEM C410 Principles of Chemical Instrumentation (3 cr.)
- CHEM C411 Principles of Chemical Instrumentation Laboratory (2 cr.)

Education (40 to 43 credit hours)

Students begin the application process to the Teacher Education Program as sophomores, ~8 months prior to the semester they wish to begin. The Praxis I exam must be taken 6 weeks before the application deadline. Application deadlines are Feb 7 to start in Fall, and September 7 to start in Spring. Ideally, EDUC H341 is taken during the semester the student applies to the Teacher Education Program.

For more information, see <http://education.iupui.edu/soe/applying/undergraduate/sublttl/index.aspx>.

<input type="checkbox"/> EDUC F200 Examining Self as a Teacher (3 cr.) (Optional)	
<input type="checkbox"/> EDUC H341 American Culture and Education (Note: Satisfies the List H requirement.)*+ (3 cr.)	
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<input type="checkbox"/> EDUC M322 Diversity and Learning: Reaching Every Adolescent (Note: Satisfies the List S req.)* (6 cr.)	Block I
<input type="checkbox"/> EDUC M403 Field Experience (1 cr.)	Block I
<input type="checkbox"/> EDUC M469 Content Area Literacy (3 cr.)	Block I
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<input type="checkbox"/> EDUC K306 Teaching Students with Special Needs in Secondary Classrooms (3 cr.)	Block IIa
<input type="checkbox"/> EDUC M404 Field Experience: Middle School (0 cr.)	Block IIa
<input type="checkbox"/> EDUC S420 Teaching/Learning in the Middle School (3 cr.)	Block IIa
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<input type="checkbox"/> EDUC M446 Methods of Teaching Senior High/Junior High/Middle School Science (3 cr.)	Block IIb+
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<input type="checkbox"/> EDUC S430 Teaching/Learning in the High School (3 cr.)	Block III
<input type="checkbox"/> EDUC M405 Field Experience (0 cr.)	Block III
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<input type="checkbox"/> EDUC M451 Student Teaching in Middle School (8 cr.)	Student Teaching
<input type="checkbox"/> EDUC M480 Student Teaching in High School# (8 cr.)	Student Teaching

Other Requirements

- Total credit hours: minimum 124.
- IUPUI Residency: minimum 32 credit hours at the 300-level and above.
- Chemistry Residency: minimum 12 credit hours and four courses at IUPUI.
- No grades below a C in Chemistry classes.
- Good academic standing for Teacher Education Program (minimum GPA 2.5).
- Check rules regarding overlapping courses, disallowed courses, correspondence courses, etc., in the IUPUI School of Science Bulletin under Undergraduate Programs, Baccalaureate Degree.

Notes

*: Six credit hours of School of Science general education requirements are fulfilled by EDUC courses.

^MATH 221/MATH 222 Calculus for Technology I and II (3 cr. / 3 cr.) will also satisfy this requirement.

#: The chemistry capstone experience requirement is satisfied by EDUC M480 Student Teaching.

+: Block IIb is only offered in the Spring semester; Students take Block IIb either with Block IIa or with Block III.