MINOR IN BIOCHEMISTRY AND CELL BIOLOGY

Program Learning Outcomes for the Minor in Biochemistry and Cell Biology

Upon completing the minor in Biochemistry and Cell Biology, students will be able to:

1. Demonstrate knowledge of biology with particular emphasis on biochemistry and cell biology.
2. Demonstrate effective oral and written communication skills, including the ability to interpret and communicate the results of biological research.
3. Demonstrate the critical thinking and analysis skills necessary to evaluate published and proposed research in the biological sciences.

Requirements for the Minor in Biochemistry and Cell Biology

Students pursuing the minor in Biochemistry and Cell Biology must complete:

• A minimum of 18 courses (minimum of 44 credit hours) to satisfy minor requirements.

The minor in Biochemistry and Cell Biology is intended for those with an interest in the life sciences but who may be majoring in other areas. This minor incorporates many of the life science core courses required for the health professions.

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

Summary

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<thead>
<tr>
<th>Code</th>
<th>Credit Hours</th>
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<td>Minimum of 44</td>
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Total Credit Hours Required for the Minor in Biochemistry and Cell Biology

Minor Requirements

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<thead>
<tr>
<th>Code</th>
<th>Credit Hours</th>
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<tbody>
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<td>Minimum of 44</td>
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Core Requirements

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<thead>
<tr>
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<th>Credit Hours</th>
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<tbody>
<tr>
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Course Substitutions

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<thead>
<tr>
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<th>Credit Hours</th>
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Lab Course Requirement

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<th>Credit Hours</th>
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Lecture Course Requirement

Select 1 course from the following:

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<tr>
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<th>Credit Hours</th>
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Total Credit Hours

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2022-2023 General Announcements PDF Generated 09/26/22
Footnotes and Additional Information

1 MATH 111 and MATH 112 may be substituted for MATH 101 or MATH 105.
2 PHYS 101 and PHYS 103 or PHYS 111 may be substituted for PHYS 125; PHYS 102 and PHYS 104 or PHYS 112 may be substituted for PHYS 126. The BioSciences department has determined that credit awarded for PHYS 141 CONCEPTS IN PHYSICS I and credit awarded for PHYS 142 CONCEPTS IN PHYSICS II are not eligible for meeting the requirements of the Biochemistry and Cell Biology minor.
3 CHEM 151 may be substituted for CHEM 121 or CHEM 111; CHEM 152 may be substituted for CHEM 123 or CHEM 113; CHEM 153 may be substituted for CHEM 122 or CHEM 112, and CHEM 154 may be substituted for CHEM 124 or CHEM 114.
4 CHEM 320 may be substituted for CHEM 212 and CHEM 214.
5 Lecture courses are noted in Rice's Course Catalog with a course type of "lecture". These courses do not include courses listed with a course type of "lecture/laboratory". For further details on course types, please see course descriptions (http://courses.rice.edu/).

Policies for the Minor in Biochemistry and Cell Biology

Advising
Rice University policies are governed primarily by the General Announcements; students are encouraged to look there first for academic policies. Advising information specific to the Department of BioSciences can be found by clicking on the Undergraduate Program tab on the department website (https://biosciences.rice.edu/).

Program Restrictions and Exclusions
Students pursuing the minor in Biochemistry and Cell Biology should be aware of the following program restrictions:

• As noted in Majors, Minors, and Certificates (https://qa.rice.edu/undergraduate-students/academic-opportunities/majors-minors-certificates/), i.) students may declare their intent to pursue a minor only after they have first declared a major, and ii.) students may not major and minor in the same subject.

• Students pursuing the BA Degree or the BS Degree with a major in Biosciences and a major concentration in Biochemistry may not additionally declare the minor in Biochemistry and Cell Biology.

• Students pursuing BA Degree or the BS Degree with a major in Biosciences and a major concentration in Cell Biology and Genetics may not additionally declare the minor in Biochemistry and Cell Biology.

• Students pursuing BA Degree or the BS Degree with a major in Biosciences and a major concentration in Integrative Biology may not additionally declare the minor in Biochemistry and Cell Biology.

Transfer Credit
For Rice University's policy regarding transfer credit, see Transfer Credit (https://qa.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.

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