Graduate Certificate: Biotechnology

COLLEGE OF SCIENCE AND TECHNOLOGY

Learn more about the graduate certificate in Biotechnology.

About the Certificate

Biotechnology is, at its simplest, technology based on biology. It harnesses cellular and biomolecular processes to develop technologies and products that help improve our lives and the health of our planet. Modern biotechnology provides breakthrough products and technologies to combat debilitating and rare diseases; reduce our environmental footprint; feed the hungry; use less and cleaner energy; and have safer, cleaner and more efficient industrial manufacturing processes. Recent advances in biotechnology are helping us prepare for and meet society’s most pressing challenges.

With only 12 credits of core coursework required, the Biotechnology graduate certificate program provides a mechanism to obtain a certificate in the field in one or two academic terms. The classes are taught by the same faculty as those for the Biotechnology PSM program. Certificate students take the same core courses as PSM students but without committing to a capstone project or the full 30 credits needed to earn a graduate degree. The Biotechnology graduate certificate program credentials future leaders in the field through a curriculum chosen according to the student’s interest.

Time Limit for Certificate Completion: 2 years

Campus Location: Main

Full-Time/Part-Time Status: The certificate program can be completed on a full- or part-time basis. NOTE: International students may not be eligible to apply for a student visa based on admission to the certificate program. Please contact the assistant program director for more information.

Non-Matriculated Student Policy: Non-matriculated students may take up to 9 credits of coursework before applying to the graduate certificate program.

Admission Requirements and Deadlines

Application Deadline:

Fall: March 1

Applications are processed on a continual basis. Ordinarily, the applicant is informed of an admissions decision within four to six weeks of receipt of all supporting application documents. Late applications may be considered for admission.

International students should note that the certificate does not fulfill the F-1 visa requirement for full-time coursework. International students already enrolled in a PSM or other graduate program at Temple may enroll in the certificate program, in addition to their current program, with approval from their program’s graduate advisor.

APPLY ONLINE to this graduate program.

Coursework Required for Admission Consideration: Applicants should have a strong background in Biology, Chemistry, Engineering or Physics. Upon review, the Biology Department’s Graduate Committee may allow departures from course requirements.

Bachelor’s Degree in Discipline/Related Discipline: A baccalaureate degree in a science or engineering field is required.

Statement of Goals: In approximately 500 to 1,000 words, describe your interest in the Biotechnology certificate, research goals, and academic and professional achievements.

Certificate Requirements

Number of Credits Required to Complete the Certificate: 12

Required Courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>BIOL 5479</td>
<td>Biotechnology</td>
<td>3</td>
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<tr>
<td>BIOL 5501</td>
<td>Analytical Biotechnology</td>
<td>3</td>
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<tr>
<td>BIOL 5502</td>
<td>Microbial Biotechnology</td>
<td>3</td>
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<tr>
<td>BIOL 5503</td>
<td>Biotechnology Laboratory I</td>
<td>3</td>
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<tr>
<td>BIOL 5504</td>
<td>Biotechnology Laboratory II</td>
<td>3</td>
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Select four or five courses, as appropriate, from the following: 1
BIOL 5505  Ethics Regulation and Policy in Biotechnology
BIOL 5521  Nucleic Acid Technologies

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<th>Total Credit Hours</th>
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<tbody>
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<tr>
<td>BIOL 5521</td>
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<td>BIOL 5479</td>
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Total Credit Hours: 12

Four courses are required if all courses are taken for 3 credits. These include BIOL 5479, BIOL 5502, BIOL 5503, BIOL 5504, and BIOL 5505. Five courses are taken if BIOL 5501 Analytical Biotechnology (1.5 s.h.) and BIOL 5521 Nucleic Acid Technologies (1.5 s.h.) are selected.

GPA Required to be Awarded the Certificate: 3.0 minimum

Contacts

Certificate Program Web Address:
https://www.temple.edu/academics/degree-programs/biotechnology-certificate-graduate-st-biot-grad

Department Information:

Dept. of Biology
255 Biology-Life Sciences Building
1900 N. 12th Street
Philadelphia, PA 19122-6078
cst.psm@temple.edu
215-204-8842

Submission Address for Application Materials:
https://cst.temple.edu/academics/graduate-programs/apply-now

Department Contacts:

Program Coordinator:
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ramin.shafagh@temple.edu

Program Director:
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215-204-0604