

**BAKER UNIVERSITY MAJOR CHECKLIST**CHEMISTRY

B.A. or B.S.

## MAJOR REQUIREMENTS

## COURSES COMPLETED OR IN PROGRESS

**INTRODUCTORY & COGNATE COURSES (23 Hrs)**

CH137 &amp; CH138 General Chemistry I &amp; II (7 hrs)

MA171 &amp; MA172 Calculus I &amp; II (8 hrs)

PC225 &amp; PC226 General Physics I &amp; II (8 hrs)

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\_\_\_\_\_**MUST COMPLETE ONE OF THE FOLLOWING TWO TRACKS:****TRACK I: CHEMISTRY**Foundational Courses:

CH140 Quantitative Analysis (2 hrs)

CH251 Organic Chemistry I (4 hrs)

CH361 Physical Chemistry I (Fundamentals of Physical Chemistry) (3 hrs)

CH370 Biochemistry (3 hrs)

CH475 Inorganic Chemistry (3 hrs)

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UC \_\_\_\_\_In-Depth Courses:

CH252 Organic Chemistry II (4 hrs)

CH341 Instrumental Methods of Analysis (4 hrs)

CH362 Physical Chemistry II (3 hrs) [*BS degree students only*]

CH363 Integrated Lab I: Spectroscopy (1 hr)

CH364 Integrated Lab II: Materials (1 hr) [*BS degree students only*]

CH491 Chemistry Seminar (2 hrs)

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UC \_\_\_\_\_One of the following courses:

CH350 Environmental Chemistry (3 hrs)

CH440 Advanced Topics in Analytical Chemistry (3 hrs)

CH451 Advanced Topics in Organic Chemistry (3 hrs)

CH460 Advanced Topics in Physical Chemistry (3 hrs)

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**TRACK II: BIOCHEMISTRY**Foundational Courses:

BI151 Introduction to Molecular and Cellular Biology (4 hrs)

CH140 Quantitative Analysis (2 hrs)

CH251 Organic Chemistry I (4 hrs)

CH361 Physical Chemistry I (Fundamentals of Physical Chemistry) (3 hrs)

CH370 Biochemistry (3 hrs)

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UC \_\_\_\_\_In-Depth Courses:

BI152 Introduction to Genetics (4 hrs)

BI385 Advanced Molecular Biology (3 hrs)

BI386 Methods in Biochemistry and Molecular Biology (3 hrs)

CH252 Organic Chemistry II (4 hrs)

CH341 Instrumental Methods of Analysis (4 hrs)

CH363 Integrated Lab I: Spectroscopy (1 hr) **OR**

CH364 Integrated Lab II: Materials (1 hr)

CH491 Chemistry Seminar (2 hrs)

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UC \_\_\_\_\_One of the following courses:

BI360 Comparative Vertebrate Anatomy (4 hrs)

BI382 Comparative Physiology (4 hrs)

BI383 Advanced Cell Biology (3 hrs)

BI388 Immunology (3 hrs)

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STUDENT NAME: \_\_\_\_\_

STUDENT NUMBER: \_\_\_\_\_

DATE: \_\_\_\_\_