

Biochemistry

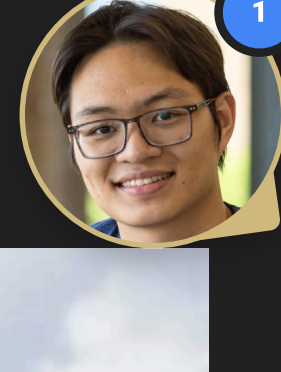
Bachelor of Science (BS)

Program Delivery
On Campus, Online, Hybrid

Total Credits
120 Credits

About the Program Focus of Study Graduation Requirements Degree Outlook Program Coursework Admission Details

About The Program



Whether you're interested in research, internships, or the pathways to a career in biochemistry, this video provides valuable insights for anyone considering a Biochemistry degree. Tune in to learn about the skills, opportunities, and expectations for future biochemists!

Focus of Study

Biochemistry students are encouraged to enhance their education through practical experiences. **CHEM 4904 Research: Upper Division** and **CHEM 4905 Internship** provide valuable opportunities for hands-on learning.

These courses offer an alternative to traditional lab settings by emphasizing experimental planning and regular communication with research supervisors, fostering essential skills for scientific inquiry and collaboration.



Graduation Requirements

The Bachelor of Science (BS) in Biochemistry requires the following:

- A minimum of **58 credit hours** of CHEM course work. At least **16** of those hours must be upper division courses (numbered 3000 or higher).
- 17 additional hours** of auxiliary course work.
- A grade of **C or better** in all CHEM and auxiliary course work.
- A minimum **2.0 GPA** must be maintained in all CHEM course work.
- No more than **60 credit hours** of CHEM course work may apply to the bachelor's degree.

Degree Outlook

9%

Employment growth is expected for biochemists & biophysicists over the next 10 years.

\$107,460

Is the median annual wage for biochemists and biophysicists in May 2023, reported by the BLS.

\$1,744.83 B

Is the calculated global biotechnology market size in 2025 and is expected to reach around \$5036.46 billion USD by 2034

Program Coursework

For details on program coursework, please visit the [Academic Catalog](#).

CHEM 1401: Chemistry I
A first college-level chemistry course for students with adequate high school chemistry and math. Emphasis on the structure and composition of matter, elements, and...

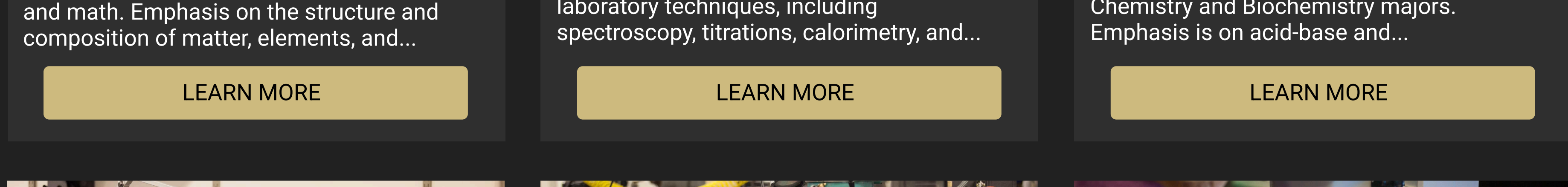
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CHEM 1402: Chemistry I Lab
Lab section to accompany CHEM 1401. An introduction to qualitative and quantitative laboratory techniques, including spectroscopy, titrations, calorimetry, and...

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CHEM 1511: Chemistry II
This is the second course of the General Chemistry sequence. It is designed for Chemistry and Biochemistry majors. Emphasis is on acid-base and...

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Program Electives

Complete 12 hours of upper-division (3000+ level) Chemistry Electives. Up to 6 hours may be from CHEM 4904 or 4905

CHEM 4904: Upper Division Research
Open to qualified junior and senior students by arrangement with a faculty member. Students will plan a project with the faculty member prior to registering for the course...

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CHEM 4905: Undergrad Internship
Students arrange a program with a faculty member through the auspices of local government or industrial facilities. The program will generally require...

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LAS & Compass Requirements

GPS 1010: Gateway Program Seminar
The Gateway Program Seminar is a unique, academic course designed for the interests and adjustment needs of UCCS first-year students. This required 3-credit course...

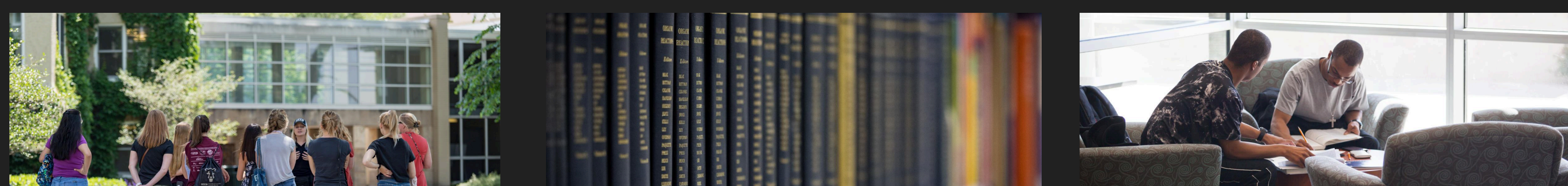
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ENGL 1310: Rhetoric & Writing I
Focuses on academic reading and writing processes; critical reading, writing, and thinking; rhetorical analysis. ENGL 1310 is the first core writing course across...

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ENGL 1410: Rhetoric & Writing II
Emphasizes argument and research supported through extended inquiry. Students use classical stasis theory to invent arguments as appropriate to audience...

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Required Auxiliary Courses

BIOL 1350: General Biology
The lecture component of an integrated lecture-laboratory course that introduces concepts of the structure/function relationships among biological molecules...

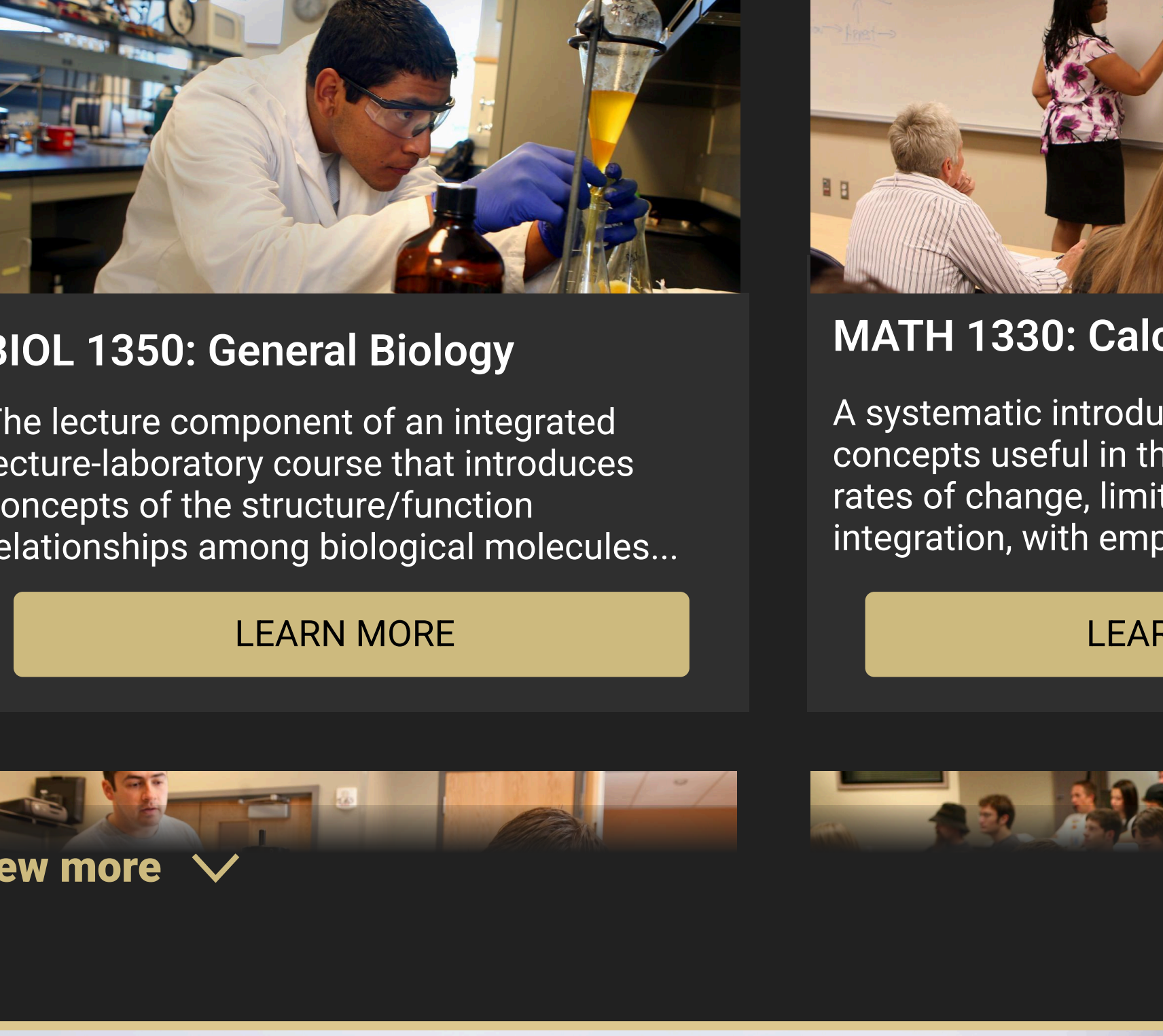
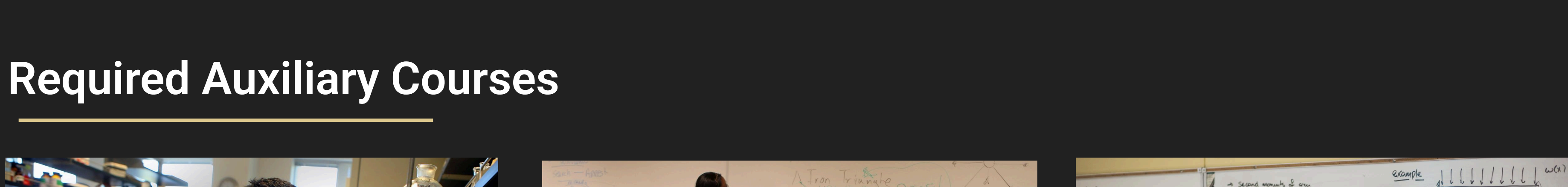
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MATH 1330: Calculus for Life Science
A systematic introduction to calculus concepts useful in the life sciences, such as rates of change, limits, differentiation and integration, with emphasis on...

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PES 1100: General Physics I
Rigorous calculus-level course in classical physics for science and engineering students. Includes measurements, vectors, motion in one dimension...

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Admission Details

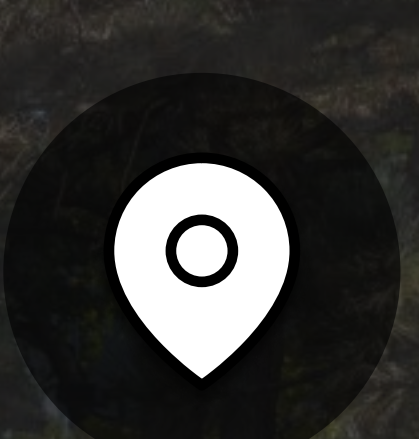
To learn more about admission requirements and the application process, please visit the [UCCS Admissions Page](#).

- Additional Resources For Admission:
- Tuition Rate
 - Cost of Tuition Estimator
 - Financial Aid
 - Scholarships

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Resources



Tour Campus



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Give us Website Feedback!

For questions regarding website accessibility or to notify the university of online information or functionality that is currently inaccessible

INFORMATION

- Accreditation
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RESOURCES

- Future Students
- Current Students
- Faculty & Staff
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- Alumni & Donors

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