

Academic Program Assessment Report

Assessment is a term commonly used to encompass the process of gathering and using evidence to guide improvements.

SACSCOC requires that an institution "identifies expected outcomes, assesses the extent to which it achieves these outcomes, and provides evidence of seeking improvement based on analysis of the results".

Be sure to **SAVE** your progress as you work!

Academic Program
Medical Biology, B.S.

Submission Due Date
2024-2025

Assessment Coordinator Name
TD Maze

Enter Assessment Coordinator Email
tmaze@lander.edu

Program Goal

Goal

Goal 1

Program Goals are broad and overarching statements about the skills, knowledge, and dispositions students are expected to gain by the end of their course of study (big picture). They support the Institution's Mission/Goals.

Program Goal

Lander Medical Biology graduates will be successful at gaining admission to professional post-graduate programs or will be prepared to enter career paths in the health care field.

Pillar of Success Supported

Graduates Who Are Gainfully Employed or Admitted to Graduate School

Outcomes

Outcome 1

Outcomes are specific, **measurable** statements that reflect the broader goals.

Academic Programs are required to develop **Student Learning Outcomes**, which describe knowledge, skills, and values that students are expected to gain as a result of their educational experiences.

Academic Programs may also develop **Operational Outcomes**, which describe the level of performance of an operational aspect of a program or office (ex. graduation rates, retention, employment data).

Most goals have at least two outcomes measured.

What type of Outcome would you like to add?

Operational Outcome

Enter Outcome

Graduates will be accepted to professional post-graduate programs within two years of graduation or they will be prepared to enter careers in a health-care or science related field.

Timeframe for this Outcome

2026 - 2028

Performance Target for "Met"

80% of graduates will be accepted to professional post-graduate programs within two years of graduation or they will enter careers in a health-care or science related field.

Performance Target for "Partially Met"

50% of graduates will be accepted to professional post-graduate programs within two years of graduation or they will enter careers in a health-care or science related field.

Performance Target for "Not Met"

Less than 50% of graduates will be accepted to professional post-graduate programs within two years of graduation or they will enter careers in a health-care or science related field.

Assessment Measure Used

Survey at graduation (BIOM 499)
Post-graduate survey

Frequency of Assessment

Annually

Data Collected for this Timeframe (Results)

This data will be collected beginning Spring 2026.

Score (Met=3, Partially Met=2, Not Met=1)**Comments/Narrative**

The first cohort of students was admitted to the program in Fall 2022. The expected first graduating class is Spring 2026.

Resources Needed to Meet/Sustain Results

Watermark CES to build and distribute the surveys.

Explanation of How Resources Will Be Used**Outcome 2**

Outcomes are specific, **measurable** statements that reflect the broader goals.

Academic Programs are required to develop **Student Learning Outcomes**, which describe knowledge, skills, and values that students are expected to gain as a result of their educational experiences.

Academic Programs may also develop **Operational Outcomes**, which describe the level of performance of an operational aspect of a program or office (ex. graduation rates, retention, employment data).

Most goals have at least two outcomes measured.

What type of Outcome would you like to add?

Student Learning Outcome

Enter Outcome

Students will be able to prepare a personal statement that articulates why they have chosen a career in a professional post-graduate program.

Timeframe for this Outcome

2025 - 2026

Performance Target for "Met"

90% of the graduates will have written an excellent personal statement.

Performance Target for "Partially Met"

80% of the graduates will have written an excellent personal statement.

Performance Target for "Not Met"

Less than 80% of the graduates will have written an excellent personal statement.

Assessment Measure Used

Classroom rubric BIOM 299

Frequency of Assessment

Annually

Data Collected for this Timeframe (Results)

Spring 2024

Score (Met=3, Partially Met=2, Not Met=1)

1

Comments/Narrative

Despite this goal being directed at graduates, the second-year students were assessed on their personal statements in the Spring of 2024 in BIOM 299. Of eleven students only one scored "excellent" according to the rubric used for assessment. It is not unexpected that this benchmark has not yet been achieved by the second-year cohort but it was beneficial to collect early data and provide feedback to the students. During the Spring 2025 term, a new cohort of second-year students will be assessed in BIOM 299 for the first time and, based on the feedback from this data, more classroom discussion dedicated to person statements will be added to the Spring 2025 section of BIOM 299. The third-year cohort, that the current data is based on, will be assessed a second time in BIOM 399 where it is expected to see continued improvements. To improve the personal statements, BIOM 399 will perform critical analyses of excellent and poor examples of personal statements to gain more understanding of the key points in creating an excellent personal statement.

Resources Needed to Meet/Sustain Results

N/A

Explanation of How Resources Will Be Used**Outcome 3**

Outcomes are specific, **measurable** statements that reflect the broader goals.

Academic Programs are required to develop **Student Learning Outcomes**, which describe knowledge, skills, and values that students are expected to gain as a result of their educational experiences.

Academic Programs may also develop **Operational Outcomes**, which describe the level of performance of an operational aspect of a program or office (ex. graduation rates, retention, employment data).

Most goals have at least two outcomes measured.

What type of Outcome would you like to add?

Student Learning Outcome

Enter Outcome

Students will be able apply the best practices of interviewing for a professional post-graduate program or a health-care related job.

Timeframe for this Outcome

2025 - 2026

Performance Target for "Met"

90% of the graduates will have demonstrated they understand the best practices in interviewing for a professional post-graduate program in mock interviews.

Performance Target for "Partially Met"

80% of the graduates will have demonstrated they understand the best practices in interviewing for a professional post-graduate program in mock interviews.

Performance Target for "Not Met"

Less than 80% of the graduates will have demonstrated they understand the best practices in interviewing for a professional post-graduate program in mock interviews.

Assessment Measure Used

Classroom rubric (BIOM 299, BIOM 399, BIOM 499)

Frequency of Assessment

Annually

Data Collected for this Timeframe (Results)

Not collected

Score (Met=3, Partially Met=2, Not Met=1)

Comments/Narrative

First cohort was admitted to the program in the Fall of 2022. The first class matriculated to BIOM 299 this past spring but this learning outcome was not assessed. During the Spring 2025 term, two cohorts of student (BIOM 299 and BIOM 399) will be assessed for the first time.

Resources Needed to Meet/Sustain Results

N/A

Explanation of How Resources Will Be Used

Goal Summary

Goal Summary/Comments

The Medical Biology program is a new program. The inaugural cohort is currently in the third-year and expected to graduate Spring 2026. Preliminary data was collected from second-year students on their ability to create a personal statement about their career. The first version of their personal statements did not reach the standards at this time but the students will be able to continue to develop these statements as they matriculate through the program.

Changes Made/Proposed Related to Goal

N/A

Upload Rubrics/Other Files

Personal Statement rubric BIOM 299 Spring 2024.pdf

Goal 2

Program Goals are broad and overarching statements about the skills, knowledge, and dispositions students are expected to gain by the end of their course of study (big picture). They support the Institution's Mission/Goals.

Program Goal

Lander Medical Biology graduates will demonstrate their general knowledge and understanding of content from the primary pillars of knowledge recommended by the Howard Hughes Medical Institute for what "Scientific Foundation for Future Physicians" should know.

Pillar of Success Supported

Graduates Who Are Gainfully Employed or Admitted to Graduate School

Outcomes

Outcome 1

Outcomes are specific, **measurable** statements that reflect the broader goals.

Academic Programs are required to develop **Student Learning Outcomes**, which describe knowledge, skills, and values that students are expected to gain as a result of their educational experiences.

Academic Programs may also develop **Operational Outcomes**, which describe the level of performance of an operational aspect of a program or office (ex. graduation rates, retention, employment data).

Most goals have at least two outcomes measured.

What type of Outcome would you like to add?

Student Learning Outcome

Enter Outcome

Students will understand the principles of Biochemistry and Cell Energetics.

Timeframe for this Outcome

2025 - 2026

Performance Target for "Met"

90% of the graduates will have a score equal to or greater than the national average on the ETS Major Field Test's Biochemistry and Cell Energetics section.

Performance Target for "Partially Met"

80% of the graduates will have a score equal to or greater than the national average on the ETS Major Field Test's Biochemistry and Cell Energetics section.

Performance Target for "Not Met"

Less than 80% of the graduates will have a score equal to or greater than the national average on the ETS Major Field Test's Biochemistry and Cell Energetics section.

Assessment Measure Used

ETS Major Field Test

Frequency of Assessment

Annually

Data Collected for this Timeframe (Results)

Not collected

Score (Met=3, Partially Met=2, Not Met=1)

Comments/Narrative

The first cohort of students was admitted to the program in Fall 2022. The expected first graduating class is Spring 2026. This assessment will given for the first time in the Spring of 2026.

Resources Needed to Meet/Sustain Results

N/A

Explanation of How Resources Will Be Used

Outcome 2

Outcomes are specific, **measurable** statements that reflect the broader goals.

Academic Programs are required to develop **Student Learning Outcomes**, which describe knowledge, skills, and values that students are expected to gain as a result of their educational experiences.

Academic Programs may also develop **Operational Outcomes**, which describe the level of performance of an operational aspect of a program or office (ex. graduation rates, retention, employment data).

Most goals have at least two outcomes measured.

What type of Outcome would you like to add?

Student Learning Outcome

Enter Outcome

Students will understand the principles of Cellular Structure, Organization, and Function.

Timeframe for this Outcome

2025-2026

Performance Target for "Met"

90% of the graduates will have a score equal to or greater than the national average on the ETS Major Field Test's Cellular Structure, Organization, and Function section.

Performance Target for "Partially Met"

80% of the graduates will have a score equal to or greater than the national average on the ETS Major Field Test's Cellular Structure, Organization, and Function section.

Performance Target for "Not Met"

Less than 80% of the graduates will have a score equal to or greater than the national average on the ETS Major Field Test's Cellular Structure, Organization, and Function section.

Assessment Measure Used

ETS Major Field Test

Frequency of Assessment

Annually

Data Collected for this Timeframe (Results)

Not Collected

Score (Met=3, Partially Met=2, Not Met=1)**Comments/Narrative**

The first cohort of students was admitted to the program in Fall 2022. The expected first graduating class is Spring 2026. This assessment will be given for the first time in the Spring of 2026.

Resources Needed to Meet/Sustain Results**Explanation of How Resources Will Be Used****Outcome 3**

Outcomes are specific, **measurable** statements that reflect the broader goals.

Academic Programs are required to develop **Student Learning Outcomes**, which describe knowledge, skills, and values that students are expected to gain as a result of their educational experiences.

Academic Programs may also develop **Operational Outcomes**, which describe the level of performance of an operational aspect of a program or office (ex. graduation rates, retention, employment data).

Most goals have at least two outcomes measured.

What type of Outcome would you like to add?

Student Learning Outcome

Enter Outcome

Students will understand the functionality of the human body.

Timeframe for this Outcome

2025 - 2026

Performance Target for "Met"

90% of the graduates will have a score equal to or greater than the national average on the ETS Major Field Test's Organismal - Animal section.

Performance Target for "Partially Met"

80% of the graduates will have a score equal to or greater than the national average on the ETS Major Field Test's Organismal - Animal section.

Performance Target for "Not Met"

Less than 80% of the graduates will have a score equal to or greater than the national average on the ETS Major Field Test's Organismal - Animal section.

Assessment Measure Used

ETS Major Field Test

Frequency of Assessment

Annually

Data Collected for this Timeframe (Results)
Not Collected

Score (Met=3, Partially Met=2, Not Met=1)

Comments/Narrative

The first cohort of students was admitted to the program in Fall 2022. The expected first graduating class is Spring 2026. This assessment will be given for the first time in the Spring of 2026.

Resources Needed to Meet/Sustain Results

Explanation of How Resources Will Be Used

Outcome 4

Outcomes are specific, **measurable** statements that reflect the broader goals.

Academic Programs are required to develop **Student Learning Outcomes**, which describe knowledge, skills, and values that students are expected to gain as a result of their educational experiences.

Academic Programs may also develop **Operational Outcomes**, which describe the level of performance of an operational aspect of a program or office (ex. graduation rates, retention, employment data).

Most goals have at least two outcomes measured.

What type of Outcome would you like to add?

Student Learning Outcome

Enter Outcome

Students will be able to use analytic skills to solve problems and ask scientific questions.

Timeframe for this Outcome

2025 - 2026

Performance Target for "Met"

90% of the graduates will have a score equal to or greater than the national average on the ETS Major Field Test's Analytic skills section.

Performance Target for "Partially Met"

80% of the graduates will have a score equal to or greater than the national average on the ETS Major Field Test's Analytic skills section.

Performance Target for "Not Met"

Less than 80% of the graduates will have a score equal to or greater than the national average on the ETS Major Field Test's Analytic skills section.

Assessment Measure Used

ETS Major Field Test

Frequency of Assessment

Annually

Data Collected for this Timeframe (Results)

Not Collected

Score (Met=3, Partially Met=2, Not Met=1)

Comments/Narrative

The first cohort of students was admitted to the program in Fall 2022. The expected first graduating class is Spring 2026. This assessment will be given for the first time in the Spring of 2026.

Resources Needed to Meet/Sustain Results**Explanation of How Resources Will Be Used**

Goal Summary

Goal Summary/Comments

This goal will be assessed for the first time during the first cohort's fourth-year (Spring 2026).

Changes Made/Proposed Related to Goal

N/A

Upload Rubrics/Other Files**Dean's Email Address**

jyates1@lander.edu

Approved by Dean?

Yes

Signature of Dean

Jennifer R. Yates

Comments from Dean's Review

I look forward to seeing the first full set of assessments/outcomes for this program in the coming year(s). The assessment results will be of significant importance for evaluating this new program to determine whether it is serving the purpose for which it was developed. And for making improvements after the early cohorts complete the program.

Thank you for reviewing and approving this report. The approval and a copy of the report will be emailed to you and the Assessment Coordinator.