

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
Fall 2025: October 1, 2025

Assessment Coordinator Name
TD Maze

Enter Assessment Coordinator Email
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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 or 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 2028.

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

Academic Year 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 and BIOM 399

Frequency of Assessment

Annually

Data Collected for this Timeframe (Results)

Spring 2025

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

2

Comments/Narrative

Last year, this goal was not met. The program offers a seminar series for each cohort of students in the Spring. This year, the second year cohort (BIOM 299), and the third year cohort (BIOM 399) were presented multiple sessions geared specifically towards increasing their ability to write personal statements. The Medical Biology Committee restructured the personal statement rubric where we clearly articulated the expectations of the personal statement. Between the two cohorts, 19 of 23 (83%) of the students were able to clearly articulate in a personal statement why they wanted to go into a career in healthcare.

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

Academic Year 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 and BIOM 399)

Frequency of Assessment

Annually

Data Collected for this Timeframe (Results)

Spring 2025

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

1

Comments/Narrative

During the Spring of 2025, the second-year cohort of students and the third-year cohort of students were evaluated for the first time on their ability to perform in a mock interview. The Medical Biology Committee created a rubric and used the rubric to clearly articulate to the students the best practices during a professional school interview. Between the two cohorts, 16 of 23 students (70%) were able to apply those best practices during a mock interview. Despite being given many of the interview questions in advance, many students had problems when asked to respond to those questions on the spot without having time to write their thoughts down and proofread their info corrections. In the future, there are plans to have students more frequently give shorter oral responses in less formal settings to help them acclimate to the demands of a live interview.

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 fourth-year and expected to graduate Spring 2026. The Medical Biology Committee is pleased with the progress of students' ability to express themselves in written and oral form and are excited to see the results of their placement in professional and graduate programs.

Changes Made/Proposed Related to Goal

N/A

Upload Rubrics/Other Files

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

Frequency of Assessment

ETS Major Field Test

Annually

Data Collected for this Timeframe (Results)

Not collected. Will begin 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. 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)

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

Not Collected. Will begin Spring 2026.

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

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. Will begin 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. This assessment will 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. Will begin 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. This assessment will 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?

Signature of Dean

Comments from Dean's Review