

Final-grade submission, engineered into the LMS with LTI.

The University of Texas Permian Basin (UTPB) uses Learning Tools Interoperability (LTI) to bring grading, assessment and student-performance tracking directly into its learning management system.

CLIENT	REGION	ENGAGEMENT	PLATFORM
University of Texas Permian Basin	United States	Public university • LTI grade integration	LTI 1.3

University of Texas Permian Basin.

The University of Texas Permian Basin (UTPB) uses Learning Tools Interoperability (LTI) to bring grading, assessment and student-performance tracking directly into its learning management system.

OUTCOMES AT A GLANCE

LTI 1.3

LMS-native embed

1-click

final-grade submit

Real-time

SIS grade sync

100%

audit-tracked

THE BRIEF

The challenge & our solution.

THE CHALLENGE

Faculty managed grading periods, grade books, last-attended dates, official grades and final submissions across disconnected screens — and pushing final grades to the registrar was manual, error-prone and hard to audit.

THE SOLUTION

We engineered an LTI-standard tool embedded inside the LMS: grading-period setup, a unified grade book with last-attended and fail-reason capture, official-grade confirmation, and a guided final-grade submission that syncs to the SIS with an audit-ready receipt.

How we delivered it.

01

LTI integration

Embedded the tool inside the LMS via the LTI standard — single sign-on, no new logins for faculty.

02

Grade book

Unified scores, last-attended dates, official grades and fail reasons in one synced view.

03

Final submission

Built a guided readiness check that pushes a whole cohort to the registrar in one action.

04

Confirmation & sync

Synced grades to the SIS instantly with a timestamped, locked confirmation receipt.

TECHNOLOGY STACK

• LTI 1.3

• Canvas LMS

• Ruby on Rails

• LMS Gradebook API

• SIS Integration

INSIDE THE BUILD

The complete walkthrough.

8 screens walk through the build end to end — the following pages cover each one.



01

Grading period

Define each term and its grade-submission window, with active, closed and archived periods at a glance.

- Account
- Admin
- Dashboard
- Courses
- Calendar
- Inbox
- History
- Commons
- Help & Resources

- Courses
- People
- Statistics
- Permissions
- Outcomes
- Rubrics
- Grading
- Question Banks
- Sub-Accounts
- Account Calendars **NEW**
- Terms
- Authentication
- SIS Import
- Themes
- Developer Keys
- Attendance
- Canvas Data Portal

University of Texas Permian Basin > UTPB Grading Period

Grading Period Successfully Created.

Grading period

[+ Add New Grading Period](#)

2023 Fall - 1st 8 Weeks SIS ID : 2238-8W1 0 Courses	Grading Period Fall-2023 18W runs from Sep 1 2023 to Nov 1 2023 Term runs from Aug 28 2023 to Nov 3 2023	Edit
TEST-2023-Account-8th Week SIS ID : 2023-A8W 0 Courses	Grading-Period-Fall-2023 W8 runs from Oct 4 2023 to Dec 27 2023 Term runs from Oct 1 2023 to Dec 31 2023	Edit
TEST-2023-Account-3rd to 5th Week SIS ID : 2023-A5W 2 Courses	Grading-Period Fall 2023-3WS runs from Oct 5 2023 to Dec 20 2023 Term runs from Oct 1 2023 to Dec 31 2023	Edit
2023 Fall - 2nd 8 Weeks SIS ID : 2238-8W2 136 Courses	Fall Grade period test 2023 runs from Dec 11 2023 to Dec 19 2023 Term runs from Oct 16 2023 to Dec 29 2023	Edit
TEST-2023-Account-2nd Week SIS ID : 2023-A2W 10 Courses	Grading-period-Advance-Account-Analytics-2023-2nd Week runs from Oct 2 2023 to Oct 29 2023 Term runs from Oct 1 2023 to Dec 31 2023	Edit

02

Create new grading period

A guided form sets term dates and the final-grade deadline, with a live SIS-sync preview.

- Account
- Admin
- Dashboard
- Courses
- Calendar
- Inbox
- History
- Commons
- Help & Resources

- Courses
- People
- Statistics
- Permissions
- Outcomes
- Rubrics
- Grading
- Question Banks
- Sub-Accounts
- Account Calendars **NEW**
- Terms
- Authentication
- SIS Import
- Themes
- Developer Keys
- Attendance
- Canvas Data Portal

University of Texas Permian Basin > UTPB Grading Period

Create New Grading Period

Grading Period Name

Grading Period - Fall-2023 1W8

Select Term

TEST-2023-1st 8 Weeks

Term start date - Oct 1, 2023 Term end date - Dec 30, 2023

Start Date

Oct 03 2023

End Date

Dec 27 2023

[Back](#) [Create](#)

Note For your chosen term, course updates may require some time.

Grade book

Scores, attendance and official grades for every learner in one synced, LMS-native view.

2023 Fall - 1st 8 Weeks

Account

Admin

Dashboard

Courses

Calendar

Inbox

History

Commons

Help & Resources

Home

Announcements

Simple Syllabus

Syllabus

Modules

Discussions

Assignments

Grades

UTPB Online Tutoring

Media Gallery

My Media

Office 365

Item Banks

Pope Tech Accessibility

WSJ Context

Credentials

Rubrics

Collaborations

Grade Book

STUDENT NAME	SCORE (Blanks-ignored)	SCORE (Blanks treated as zero)	CURRENT LETTER GRADE	OFFICIAL GRADE (Sent to SIS)	F REASON	LAST ATTENDED ?
	87	56	-	56	Select	
	98	70	-	70	Select	
	98	70	-	70	Select	
	100	71	-	71	Select	
	97	69	-	69	Select	
	98	60	-	60	Select	
	93	53	-	53	Select	
	90	38	-	38	Select	
	97	59	-	59	Select	
	87	62	-	62	Select	
	100	71	-	71	Select	
	98	70	-	70	Select	

Grading Period: 09/01/2023 - 11/01/2023

Cancel

Save

Submit Final Grades

Grade book — last attended

The last date each learner engaged, with days-inactive flags for early follow-up.

2023 Fall - 1st 8 Weeks

Account

Admin

Dashboard

Courses

Calendar

Inbox

History

Commons

Help & Resources

Home

Announcements

Simple Syllabus

Modules

Grades

Media Gallery

My Media

Assignments

Discussions

Files

Pages

People

Quizzes

BigBlueButton

Collaborations

Outcomes

Rubrics

NURS-4286.783 Men's Health Nursing > UTPB Gradebook

Grade Book

STUDENT NAME	SCORE (Blanks-ignored)	SCORE (Blanks treated as zero)	CURRENT LETTER GRADE	OFFICIAL GRADE (Sent to SIS)	F REASON	LAST ATTENDED ?
	97	52	A	F	Attended	
	100	53	A	E	Select	
	90	46	A-	F	Non-Attendance	10/02/2023
	99	52	A	F	Select	
	97	51	A	F	Non-Attendance	10/03/2023
	95	50	A	F	Select	
	99	52	A	G	Select	
	96	51	A	F	Non-Attendance	
	98	52	A	F	Select	
	88	45	B+	F	Select	
	100	53	A	F	Select	
	90	47	A-	F	Select	
	98	52	A	F	Select	
	94	60	A	F	Select	

Grade book — official grade

Confirm the transcript grade with the full score breakdown shown alongside.

Account

Admin

Dashboard

Courses

Calendar

Inbox

History

Commons

Help & Resources

Home

Announcements

Assignments

Discussions

Grades

UTPB Gradebook

People

Pages

Files

Syllabus

Outcomes

Rubrics

Quizzes

Modules

BigBlueButton

Collaborations

UTTC1 > UTPB Gradebook

New Test Term-2nd 8 Weeks

Grade Book

STUDENT NAME	SCORE (Blanks-ignored)	SCORE (Blanks treated as zero)	CURRENT LETTER GRADE	OFFICIAL GRADE (Sent to SIS)	F REASON	LAST ATTENDED ?
	90	90	A-	A-	Select	
	70	70	C-	C-	Select	
	85	85	B	B	Select	
	75	75	C	C	Select	
	45	45	F	F	Select	
	80	80	B-	B-	Select	
	50	50	F	F	Select	
	100	100	A	A	Select	
	60	60	F	F	Select	
	50	50	F	F	Select	

Grading Period: 10/05/2023 - 12/20/2023

Cancel

Save

Submit Final Grades

Grade book — fail reason

Required reporting capture whenever a failing grade is recorded — never attended, stopped attending and more.

Account

Admin

Dashboard

Courses

Calendar

Inbox

History

Commons

Help & Resources

Home

Announcements

Assignments

Discussions

Grades

UTPB Gradebook

People

Pages

Files

Syllabus

Outcomes

Rubrics

Quizzes

Modules

BigBlueButton

Collaborations

Chat

Attendance

UTAA1 > UTPB Gradebook

TEST-2023-Account-2nd W...

Grade Book

STUDENT NAME	SCORE (Blanks-ignored)	SCORE (Blanks treated as zero)	CURRENT LETTER GRADE	OFFICIAL GRADE (Sent to SIS)	F REASON	LAST ATTENDED ?
	58	58	F	F	Non-Attendance	10/03/2023
	42	42	F	F	Non-Attendance	10/04/2023
	100	100	A	A	Select	
	80	80	B-	B-	Select	
	59	59	F	F	Non-Attendance	10/10/2023
	100	100	A	B	Select	
	55	55	F	F	Non-Attendance	10/01/2023

Grading Period: 10/02/2023 - 10/29/2023

Cancel

Save

Submit Final Grades

Submit final grade

A readiness checklist confirms every grade is ready, then submits the cohort to the registrar.

UTAA1 > UTPB Gradebook

TEST-2023-Account-2nd W...

Account

Announcements

Assignments

Discussions

Grades

People

Pages

Files

Syllabus

Outcomes

Rubrics

Quizzes

Modules

BigBlueButton

Collaborations

Chat

Attendance

Grade Book

STUDENT NAME	SCORE (Blanks-ignored)	SCORE (Blanks treated as zero)	CURRENT LETTER GRADE	OFFICIAL GRADE (Sent to SIS)	F REASON	LAST ATTENDED ?
	58	58	F	F	Non-Attendance	10/03/2023
	42	42	F	F	Non-Attendance	
	100	100	A	A	Select	
	80	80	B-	B-	Select	
	59	59	F	F	Select	
	100	100	A	B	Select	
	55	55	F	F	Non-Attendance	10/01/2023

Grading Period: 10/02/2023 - 10/29/2023

Cancel
Save
Submit Final Grades

Final grade confirmation

A timestamped, audit-ready receipt the moment grades lock and sync to the SIS.

NURS-4286.783 Men's Health Nursing > UTPB Gradebook

2023 Fall - 1st 8 Weeks

Account

Announcements

Simple Syllabus

Modules

Grades

Media Gallery

My Media

Assignments

Discussions

Files

Pages

People

Quizzes

BigBlueButton

Collaborations

Outcomes

Rubrics

91	48	A-	F	Attended
99				Attended
93				Attended
97				Attended
97				Attended
90	47	A-	F	Attended
97	51	A	F	Attended
93	49	A	F	Attended
97	51	A	F	Never-Attended
93	49	A	F	Attended
96	51	A	F	Attended
95	50	A	F	Attended
95	50	A	F	Attended
95	51	A	F	Attended
95	51	A	F	Attended

Grading Period: 09/01/2023 - 11/01/2023

Cancel
Save
Submit Final Grades

Warning: Final Grade Submission

You are about to submit your final grade selections for this course. Once submitted, they cannot be edited. Changes will need to be entered directly into the Student Information system

Cancel
Submit Final Grades

Engineered for measurable impact.

Submitting a full term of final grades went from a manual, multi-screen process to one reviewed action — synced to the registrar with an audit trail every time.

UTPB Final Grades • LTI

Built and delivered by ZionStar

LTI 1.3

LMS-native
embed

1-click

final-grade
submit

**Real-
time**

SIS grade sync

100%

audit-tracked

Want results like these for your learners?

Tell us what you're building — we'll map the fastest path to your outcome.

[Book a consultation](#)

