

# Good Examples to Follow: CLR and LER Programs

Digital Credentials Roundtable

May 2023





# Presenters



**Bhavesh Bambhrolia**  
University Registrar  
Temple University



**Jeff King**  
Assistant Vice President for  
Transformative Learning  
University of Central Oklahoma

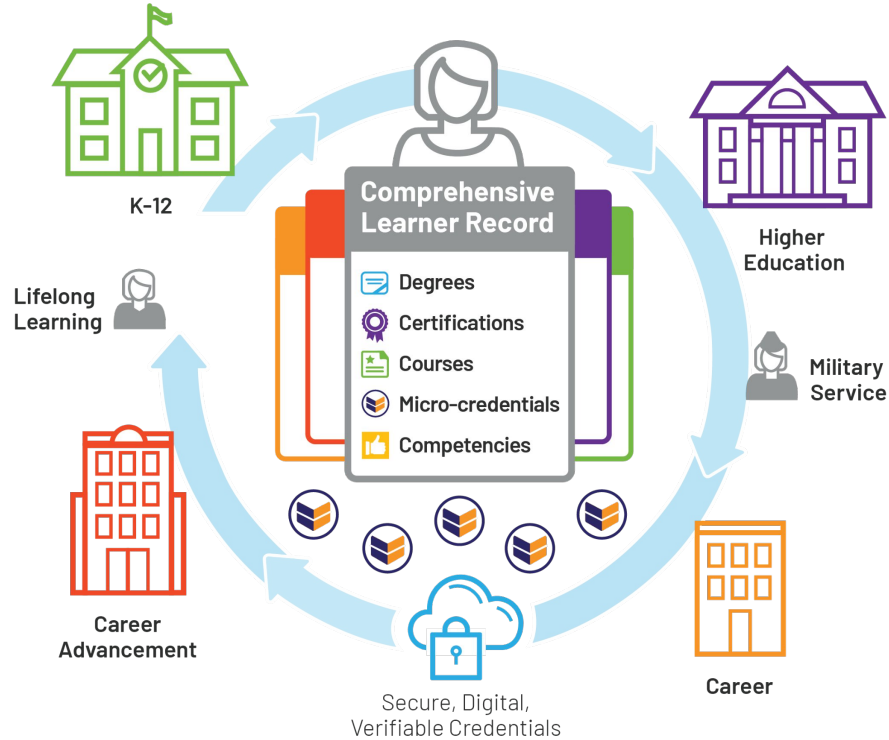


**Kelly Hoyland**  
Director, Higher Education Programs  
1EdTech



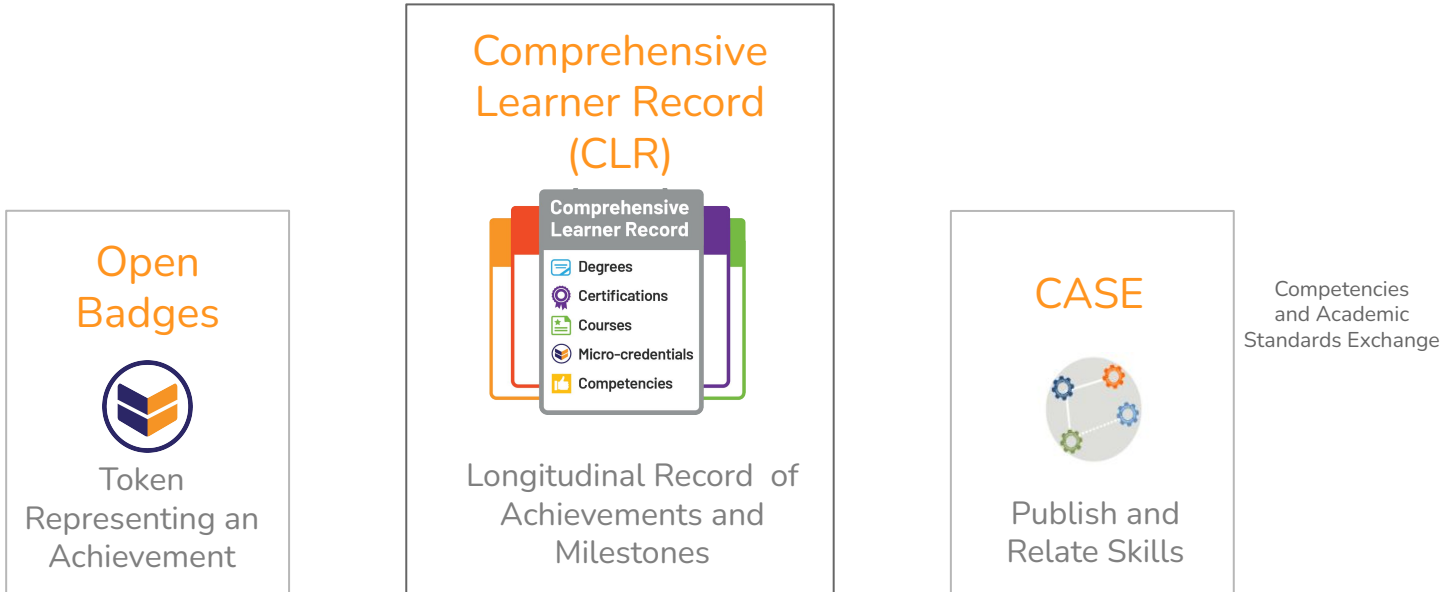
# Digital Credentials Ecosystem

Education to Employment



# Open Standards for Digital Credentials

Powering mobility



1Edtech Open Standards Enable an Interoperable Ecosystem



# Digital Credential Terms

## Foundation of work

**Learner and Employment Records (LER):** A generic term to describe digital spaces designed to help learners display their credentials and achievements. According to Jobs for the Future, a LER is “a comprehensive digital record of a worker’s skills and competencies. LERs can document learning wherever it occurs, and they may include records of people’s credentials, degrees, and employment histories.” Badge backpacks, learner wallets, and Comprehensive Learner Records are all examples of LER solutions.

**Open Badges:** A type of digital badge that conforms to the 1EdTech Open Badges standard and can serve as portable credentials containing metadata that offer detailed information about the achievements being credentialed. Open Badges contain metadata which provides additional information about the credential and how it was earned.

**Microcredential:** (A representation of learning, awarded for completion of a short program that is focused on a discrete set of competencies (i.e., skills, knowledge, attributes), and is sometimes related to other credentials. Typically displayed using an Open Badge.



# Digital Credential Terms

## Foundation of work

**Comprehensive Learner Record (CLR):** Official document that seeks to capture, record, and communicate learning when and where it happens in a student's higher education experience. This includes learning outcomes from courses, program and degrees, as well as experience they have outside the classroom that help develop their career ready skills and abilities.

**Comprehensive Learner Record (CLR) Standard** has been designed to create, transmit, and render an individual's set of achievements, as issued by multiple learning providers, in a machine-readable format that can be curated into verifiable digital records of achievement. The CLR Standard leverages the Open Badges standard and is compatible with the W3C Verifiable Credentials and the Credential Engine Registry.



# Transformative Learning at UCO:

- Develops students' beyond-disciplinary skills  
*and*
- Expands students' perspectives of their relationships  
with self, others, community and environment

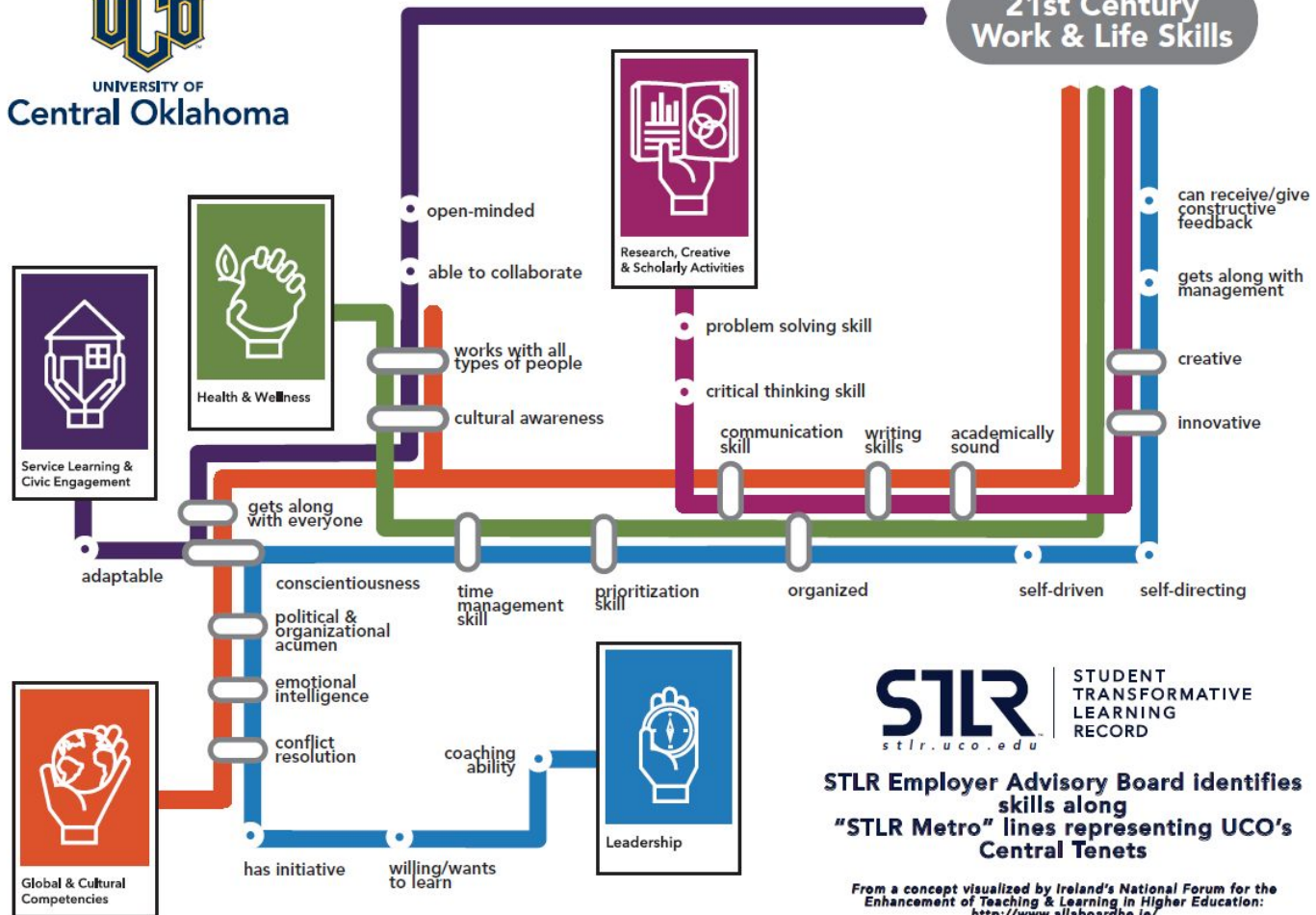
# The TL Process

(Mezirow, Brookfield,  
Cranton, Taylor)





21st Century  
Work & Life Skills



**STLR** | STUDENT  
TRANSFORMATIVE  
LEARNING  
RECORD  
*stlr.uco.edu*

**STLR Employer Advisory Board identifies skills along "STLR Metro" lines representing UCO's Central Tenets**

*From a concept visualized by Ireland's National Forum for the Enhancement of Teaching & Learning In Higher Education: <http://www.allaboardhe.ie/>*

# Experiences in and out of the classroom

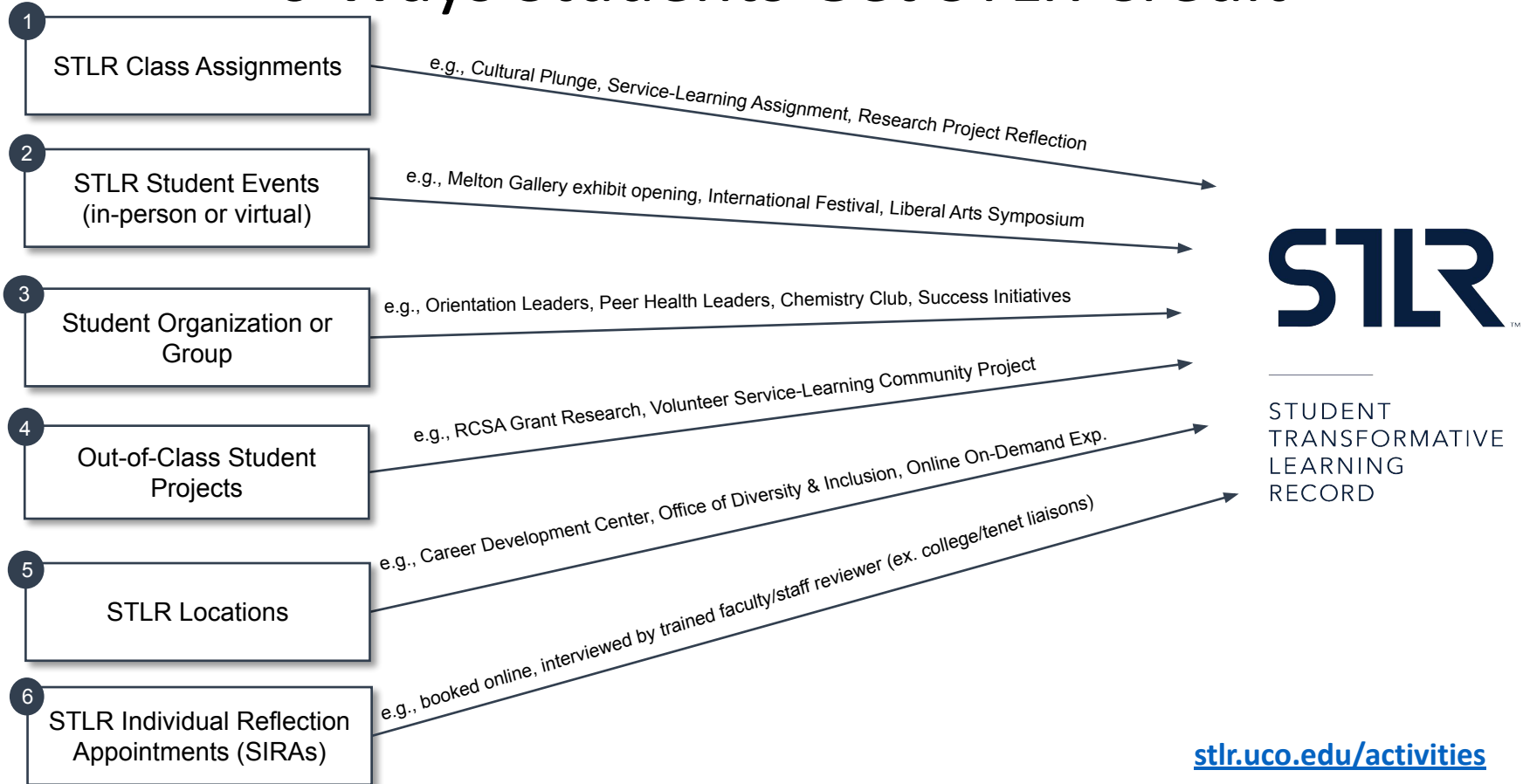


**STLR provides a way to document, track, and share these experiences.**



**STLR** | STUDENT  
TRANSFORMATIVE  
LEARNING  
RECORD

# 6 Ways Students Get STLR Credit



**STR STUDENT TRANSFORMATIVE LEARNING RECORD**

University of Central Oklahoma  
100 N. University Drive  
Edmond, OK 73034

Buddy Broncho  
\*20211870  
12/8/2021

The purpose of this Student Transformative Learning Record Snapshot is to provide a visual representation of this student's achievement in the University of Central Oklahoma's (UCO) levels of Transformative Learning. This student's educational experience at UCO has resulted in achievements at the exposure, integration, or transformation levels as indicated below. See the key on the final page of this document for short descriptions of what these levels of learning indicate with regard to student knowledge and experience. These experiences have been assessed and validated by trained faculty and professional staff members at the University.

**Leadership**

Transformation: 2  
Integration: 3  
Exposure: 12  
Total: 17

- > Transformation 2021 Fall | Central Pantry Food Bank Student Leadership Team Reflection
- > Transformation 2021 Spring | Civic Leadership Capstone | Final Project
- > Integration 2020 Spring | Intern UCO Program
- > Integration 2020 Spring | Intern UCO Undergrad Leadership Board
- > Integration 2019 Fall | TEDxUCO Undergrad Leadership Office | Leadership Activity Small Group
- > Exposure 2019 Summer | Student Engagement Office | Leadership Office San Pedro - Guest Speaker Seminar
- > Exposure 2019 Spring | Leadership Center | Speed Mentoring Session
- > Exposure 2019 Spring | Leadership Center | Speed Mentoring Session

**Global & Cultural Competencies**

Transformation: 1  
Integration: 3  
Exposure: 4  
Total: 8

- > Transformation 2021 Fall | Independent Student Project | Vox Populi: Subjectivity and the Voices of the Poor
- > Integration 2021 Fall | Care of Vulnerable Individuals | Lifespan Review
- > Integration 2021 Spring | American Literature to 1865 | How Texts are Shaped by Culture
- > Integration 2020 Fall | Intro to Biology | What About Bees? Reflection
- > Integration 2020 Spring | Chambers Library African Collection Virtual Tour
- > Exposure 2019 Fall | Developmental Psychology | My Future Self Paper
- > Exposure 2019 Fall | Developmental Psychology | My Future Self Paper

**Health & Wellness**

Transformation: 0  
Integration: 2  
Exposure: 2  
Total: 4

- > Integration 2021 Fall | Healthy Life Skills | Behavior Change Project
- > Integration 2021 Spring | Central Food Pantry Volunteering Reflection
- > Integration 2019 Fall | Intro to Biology | What About Bees?
- > Exposure 2019 Spring | Calming Central Visit

**Research, Creative & Scholarly Activities**

Transformation: 2  
Integration: 3  
Exposure: 9  
Total: 14

- > Transformation 2021 Fall | London Economic Impact Study | Research Assistant Reflection
- > Transformation 2020 Spring | National Conference on Undergraduate Research | Research Project Reflection
- > Integration 2020 Spring | National Conference on Undergraduate Research | Research Project Reflection
- > Integration 2019 Fall | Spring | Chambers Library African Collection Virtual Tour
- > Integration 2019 Fall | Spring | Chambers Library African Collection Virtual Tour
- > Exposure 2019 Spring | Intro to Forensic Science | Journal Article Peer Review
- > Exposure 2019 Spring | Intro to Forensic Science | Journal Article Peer Review
- > Exposure 2018 Fall | Melton Gallery | Imperfect Exchange by Patrick Earl Hammie Exhibit Opening
- > Exposure 2018 Fall | Melton Gallery | Imperfect Exchange by Patrick Earl Hammie Exhibit Opening
- > Exposure 2018 Fall | Melton Gallery | Imperfect Exchange by Patrick Earl Hammie Exhibit Opening

**Service Learning & Civic Engagement**

Transformation: 2  
Integration: 3  
Exposure: 14  
Total: 19

- > Transformation 2021 Fall | Central Pantry Food Bank Student Leadership Team Reflection
- > Transformation 2021 Spring | Civic Leadership Capstone | Final Project
- > Integration 2020 Spring | Intern UCO Undergrad Leadership Board
- > Integration 2020 Spring | Intern UCO Undergrad Leadership Board
- > Integration 2019 Fall | TEDxUCO Undergrad Leadership Office | Leadership Activity Small Group
- > Exposure 2019 Summer | Student Engagement Office | Leadership Office San Pedro - Guest Speaker Seminar
- > Exposure 2019 Spring | Leadership Center | Speed Mentoring Session
- > Exposure 2019 Spring | Leadership Center | Speed Mentoring Session

100 N. University Drive  
Edmond, OK 73034  
PICE = 003152

**UCO UNIVERSITY OF CENTRAL OKLAHOMA**

Office of Enrollment Services  
124 Nigh University Center  
(405) 974-3741  
FAX (405) 974-3841

**Student Transformative Learning Record**

**Global and Cultural Competencies**

Transformation	Integration	Exposure
Keen sense of cultural self and an identity as a global citizen has emerged	Developing sense of cultural self, and relation to the global community.	Beginning awareness of cultural self, openness to learning.

**Health and Wellness**

Transformation	Integration	Exposure
A holistic view of health and wellness for self and community is articulated and practiced.	A developing holistic view, some application to self and community with some ability to evaluate own behavior.	Beginning awareness and understanding of health and wellness; initial attempts at personal change.

**Leadership**

Transformation	Integration	Exposure
Leadership knowledge and skill are applied effectively to community or campus issues.	Leadership is developing; knowledge and skills are applied at a basic to intermediate level.	Leadership skills are being used out with increasing understanding.

**Research Creative and Scholarly Activities**

Transformation	Integration	Exposure
The "why" and the "how" of research and creation are grasped and show in work.	Relevant inquiry about research and creative process & skills are developing.	Skills in research and the creative process are developing; ideas are beginning to emerge.

**Service Learning and Civic Engagement**

Transformation	Integration	Exposure
Deep engagement in the community, both through learning and helping.	Awareness of community issues and the importance of engagement.	First experiences in volunteering and civic interest.

The Student Transformative Learning Record is an accurate reflection of the named student's transformative learning achievements at the University of Central Oklahoma. Information provided in the student's portfolio is not curated by the Central Association of Colleges and Schools as a "best" or "worst" practice, but is a reflection of the student's work while enrolled at the university.

The Student Transformative Learning Record is accredited by the Higher Learning Commission of Colleges and Schools as a "best" or "worst" practice, but is a reflection of the student's work while enrolled at the university.

Learn more about this student at <http://tinyurl.com/y685twhr>

NAME CHANGE HISTORY:	TERMINAL HISTORY:
1890	Terminally Normal School
1904	Central State Normal School
1919	Central State Teachers College
	1939 Central State College
	1971 Central State University
	1990 University of Central Oklahoma



17 Schools and  
Colleges

2 International  
campus

33,606 Total  
headcount

72%  
Undergraduate

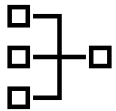
30% First Gen  
UG: Neither  
parent graduated  
college

16% First Gen  
UG: Neither  
parent attended  
college



# Design Model

What data do we need and how do we get it?



What data do we have that will tell the story?



Does the story and the design convey the mission and the learning outcomes?

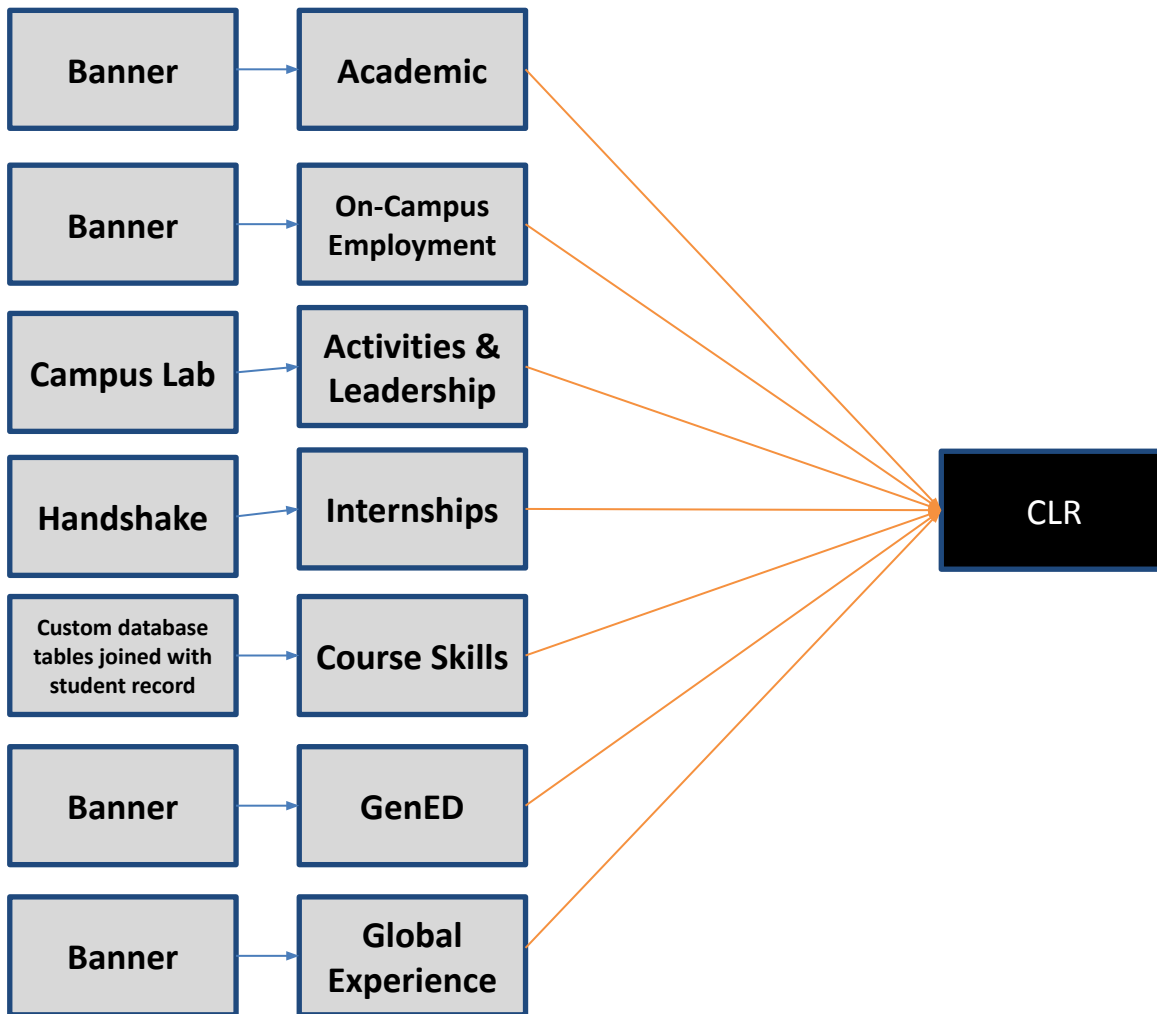


What is the ideal story we want to tell?  
What is the ideal design that will convey the story?





Data source







Temple University educates a vibrant student body and creates new knowledge through innovative teaching, research and other creative endeavors. Our urban setting provides transformative opportunities for engaged scholarship, experiential learning, and discovery of self, others and the world.

#### Academic Program Goals:

The Fox Marketing curriculum focuses on today's key marketing activities and performance metrics; the program immerses students in the applied quantitative methods and the behavioral sciences necessary to address contemporary marketing challenges. Experiential and active learning are frequently used in the upper division curriculum; cases and simulations, along with projects, many offered in cooperation with business and government organizations, allow students to apply their experiences to real-life scenarios and build their resumes and competencies.

#### Program Skills

- Business Knowledge**  
Demonstrate business knowledge needed to make business decisions.  
50 Credit Hrs
- Critical Thinking**  
Apply critical thinking skills to business decisions.  
42 Credit Hrs
- Quantitative Reasoning**  
Apply quantitative reasoning skills to make recommendations and business decisions.  
35 Credit Hrs
- Communication**  
Apply effective business communication techniques to business situations.  
28 Credit Hrs

#### Top 5 Program Subject Areas Outside of Program

Hooter T Owl engaged in 19 different subject areas. Here are the top 5:



Concept design



Hooter T. Owl

Temple ID: 91234567  
Date: 1/1/2021

Program **Bachelor of Business Administration in Marketing**  
Fox School of Business

The **General Education (GenEd) Program** constitutes Temple University's liberal education requirements for all undergraduate students. GenEds provide a foundation that helps students succeed academically and professionally.



### Foundation

Exploring Music  
IH I: The Good Life  
IH II: The Common Good  
The Meaning of the Arts

### Human Behavior

Language In Society  
Teens and Tweens

### Race & Diversity

Race & Poverty in the Americas  
Race/Ethnicity in Cinema

### Science & Technology

Digital World 2020  
Disasters: Geology vs Hollywood

### US Society

Religion in Philadelphia  
The American Economy

### Analytical Reading & Writing

Analytical Reading & Writing

### Global/World Society

Religion In the World



Placeholder: Some notes about the Philadelphia Experience Badge. Some notes about the Philadelphia Experience Badge.

Concept design

The Program in General Education provides opportunities for students to foster the following competencies:

#### Think Critically

Recognize an object of investigation, frame questions about it, and interrogate assumptions.

#### Interdisciplinary Thinking

Understand and apply knowledge in and across disciplines.

#### Civic Engagement

Function as an engaged citizen in a diverse and globalized world.

#### Information Literacy

Identify, access and evaluate sources of information.

#### Contextualized Learning

Understand historical and contemporary issues in context.

#### Communication

Communicate effectively orally and in writing.

#### Scientific and Quantitative Reasoning

Identify and solve problems using scientific and quantitative reasoning.

#### Lifelong Learning

Promote a lasting curiosity.



# Skills From Courses

Hooter T. Owl

Temple ID: 91234567  
Date: 1/1/2021

Program **Bachelor of Business Administration in Marketing**  
Fox School of Business



## Communication

Apply effective business communication techniques to business situations.



## Business Knowledge

Demonstrate business knowledge needed to make business decisions.



## Critical Thinking

Apply critical thinking skills to business decisions.



## Quantitative Reasoning

Apply quantitative reasoning skills to make recommendations and business decisions.

- STAT1102** Quant Methods for Business II
- ACCT2101** Financial Accounting
- MIS2101** Info Syst Organizations
- STAT2103** Statistical Business Analytics
- ACCT2102** Managerial Accounting
- BA2101** Prof Develop Strategies
- BA2196** Business Communications
- MKTG2101** Marketing Management
- RMI2101** Intro to Risk Management
- MSOM3101** Operations Management
- BA3103** Integrative Bus Applic
- BA4101** Global Business Policies

- STAT1102** Quant Methods for Business II
- ACCT2101** Financial Accounting
- MIS2101** Info Syst Organizations
- STAT2103** Statistical Business Analytics
- ACCT2102** Managerial Accounting
- BA2101** Prof Develop Strategies
- BA2196** Business Communications
- MKTG2101** Marketing Management
- RMI2101** Intro to Risk Management
- MSOM3101** Operations Management
- BA3103** Integrative Bus Applic
- BA4101** Global Business Policies
- BA2196** Business Communications
- MKTG2101** Marketing Management
- RMI2101** Intro to Risk Management
- MSOM3101** Operations Management
- BA3103** Integrative Bus Applic
- BA4101** Global Business Policies

- STAT1102** Quant Methods for Business II
- ACCT2101** Financial Accounting
- MIS2101** Info Syst Organizations
- STAT2103** Statistical Business Analytics
- ACCT2102** Managerial Accounting
- BA2101** Prof Develop Strategies
- BA2196** Business Communications
- MKTG2101** Marketing Management
- RMI2101** Intro to Risk Management
- MSOM3101** Operations Management

- STAT1102** Quant Methods for Business II
- ACCT2101** Financial Accounting
- MIS2101** Info Syst Organizations
- STAT2103** Statistical Business Analytics
- ACCT2102** Managerial Accounting
- BA2101** Prof Develop Strategies
- BA2196** Business Communications
- MKTG2101** Marketing Management
- RMI2101** Intro to Risk Management
- MSOM3101** Operations Management
- BA3103** Integrative Bus Applic
- BA4101** Global Business Policies
- HRM1101** Leadership & Organ Management
- BA3103** Integrative Bus Applic
- BA4101** Global Business Policies

Concept design



# Experiences

Hooter T. Owl

Temple ID: 91234567  
Date: 1/1/2021

Program **Bachelor of Business Administration in Marketing**  
Fox School of Business

## Student Organizations

- National Honors Society  
 JUN 2020
- Phi Beta Kappa  
 AUG 2018 - JUN 2020
- National Honors Society  
 JUN 2019
- Business Society and Ethics  
 FEB 2017



## Study Abroad

- Munich, Germany  
 JUN 2020 - JUL 2020  
International Business Summit
- Manila, Philippines  
 JUN 2018 - AUG 2018  
Mission of Hope

## Professional Development

Charles Schwab Internship



Adaptive Insights - Mentorship Program



## On Campus Employment

Temple University Campus Bookstore



Concept  
design



# Badges

Hooter T. Owl

Temple ID: 91234567  
Date: 1/1/2021

Program **Bachelor of Business Administration in Marketing**  
Fox School of Business



## VITA Badge

VITA is a nationwide organization regulated by the IRS that offers free tax help to people who make...

Achievement Date  
JAN 10, 2021 [Learn More](#)



## Human Resource Management Badge

Complete all activities to earn this optional HRM Badge!

Achievement Date  
JAN 10, 2021 [Learn More](#)



## Social Entrepreneur Badge

Are you making an impact? Attend 3/5 Social Entrepreneurship workshops including the...

Achievement Date  
JAN 10, 2021 [Learn More](#)



## Innovator Badge

Do you love being creative? Coming up with new ideas that could improve the world around us?...

Achievement Date  
JAN 10, 2021 [Learn More](#)



## Owl Network Badge

Complete all three Owl Network tasks to earn this badge! The first 10 students to complete the...

Achievement Date  
JAN 10, 2021 [Learn More](#)



## Owls Be Well

Attend any four Wellness Resource events to earn this badge!

Achievement Date  
JAN 10, 2021 [Learn More](#)



## Sales Force Effectiveness Badge

Marketing and Business majors may complete courses toward the Sales Force Effectiveness...

Achievement Date  
JAN 10, 2021 [Learn More](#)



## Consumer Insights Badge

Marketing majors and minors may complete courses toward the Consumer Insights Badge...

Achievement Date  
JAN 10, 2021 [Learn More](#)



## Supply Chain Management Badge

Marketing and Business majors may take courses toward the Supply Chain Management...

Achievement Date  
JAN 10, 2021 [Learn More](#)

Concept design



# Academic Accomplishment

 **Hooter T. Owl**

Temple ID: 91234567  
Date: 1/1/2021

Program **Bachelor of Business Administration in Marketing**  
**Fox School of Business**



## Description

**Program**  
University Honors

**University Honors Link**  
<https://honors.temple.edu/>

**College**  
Fox School of Business

**College Link**  
<http://www.fox.temple.edu/>

**Primary Major Name**  
International Business (With Distinction)

**Latin Honors**  
Summa Cum Laude

**Latin Honors Link**  
<https://bulletin.temple.edu/undergraduate/academic-policies/honors-academic-achievement/>

**Secondary Major Name**  
Supply Chain Management (With Distinction)

**Primary Minor**  
Data Science

**Secondary Minor**  
Digital Marketing

**Primary Concentration**  
Finance

**Secondary Concentration**  
Entrepreneurship

**Document Type**  
Research

**Document Title**  
The role of AI, in optimizing flight patterns for the delivery of consumable goods.

Concept  
design



# Continuing the conversation

- [Share](#) any feedback
- [Learning Impact Conference](#), June 5-8, 2023, Anaheim, CA
- Changing to quarterly webinars starting August 2

