



# TRANSFORMING HIGHER EDUCATION PROBLEM-BASED LEARNING

B.S. Project Design & Analysis  
New 3-year cohort-based undergraduate degree program

*THECB & SACSCOC approved*

**UNT**<sup>AT</sup>  
**FRISCO**

NEW. NEEDED.  
NEARBY. NOW.

[frisco.unt.edu](http://frisco.unt.edu)

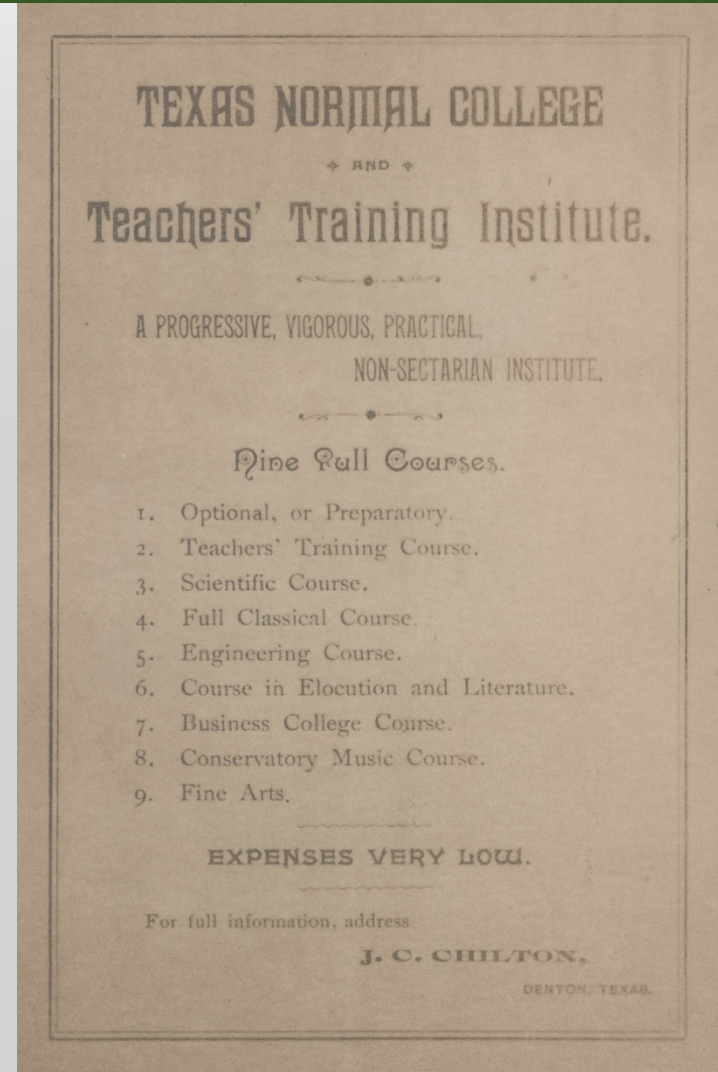
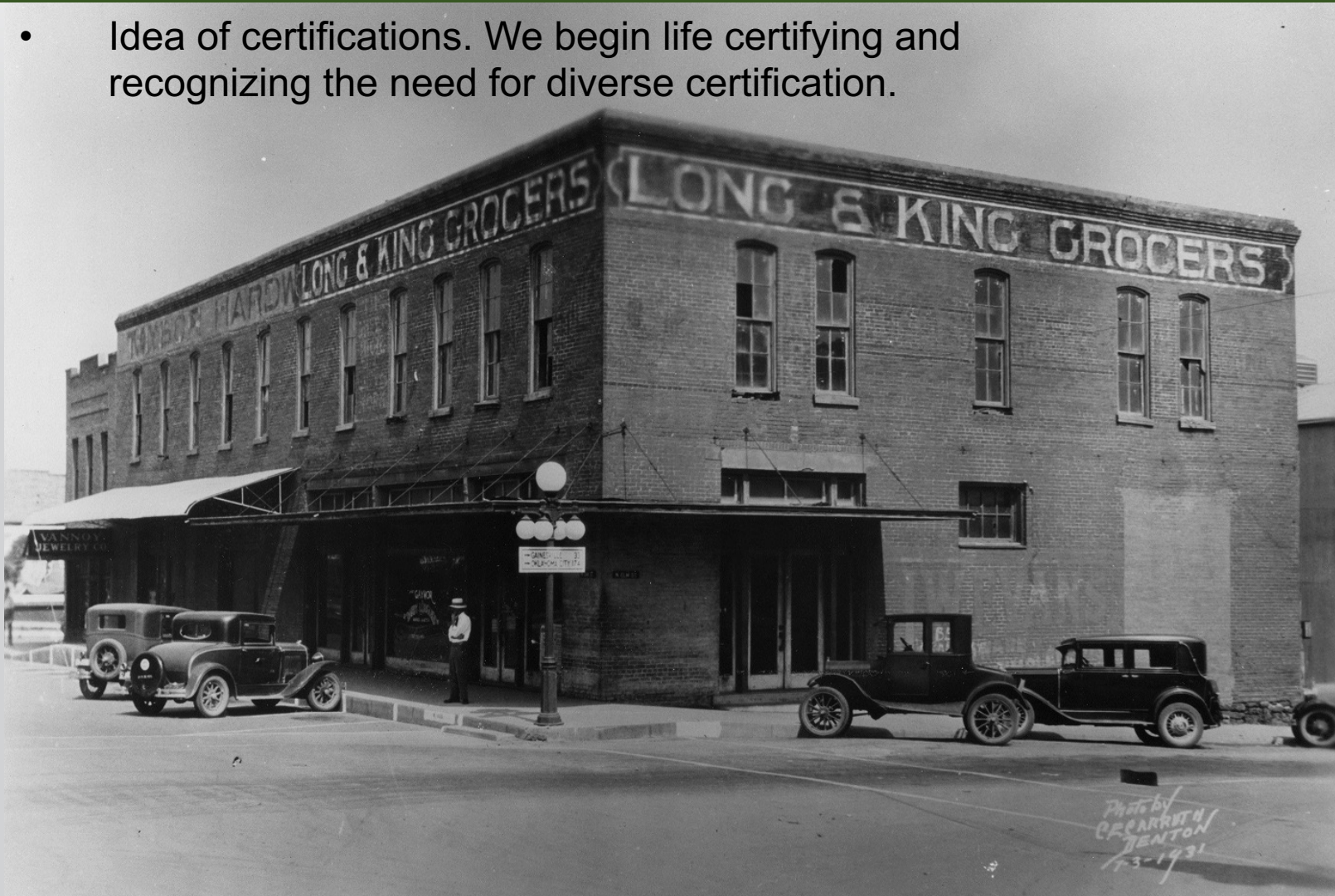
# Challenges in Higher Education?

1. Costs
2. Degree Completion
3. Impactful Faculty
4. Job Ready
5. Robot Proof



# How UNT came to be in 1890 — Reading, Writing, Arithmetic

- Idea of certifications. We begin life certifying and recognizing the need for diverse certification.

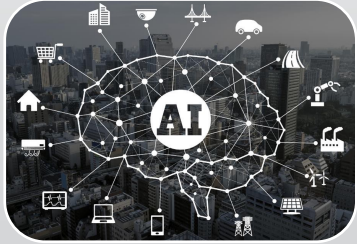


EST. 1890

UNT®

EST. 1890

# Focus of Frisco Campus... Digital Critical Thinkers



Artificial Intelligence  
& Advanced Robotics



Wearables &  
Embeddables



Biotechnology



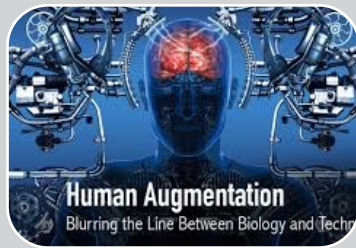
Smart /  
Sustainable Cities



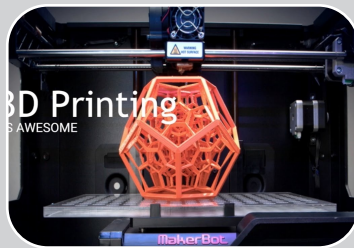
Human  
Space Travel



IoT/IoE &  
Data Analytics



Human Augmentation  
Blurring the Line Between Biology and Techno  
Human Augmentation  
and Enhancement



3D Printing  
AS AWESOME  
3D Printing /  
Additive Manufacturing.



Autonomous  
Vehicles & Drones



Virtual Reality /  
Augmented Reality

# UNT Campuses in Frisco



UNT Hall Park



UNT Inspire Park

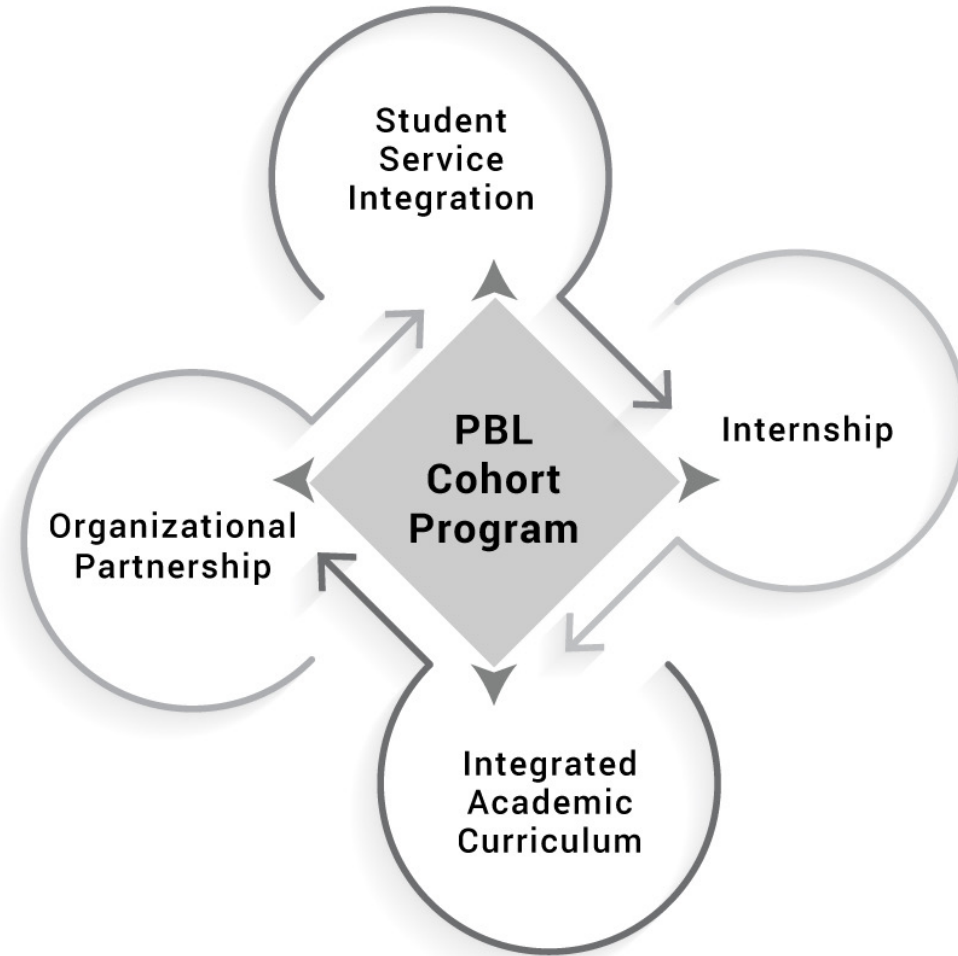


UNT New Campus – Opens Fall 2022

# 8 Competencies that Employers are seeking (NACE)

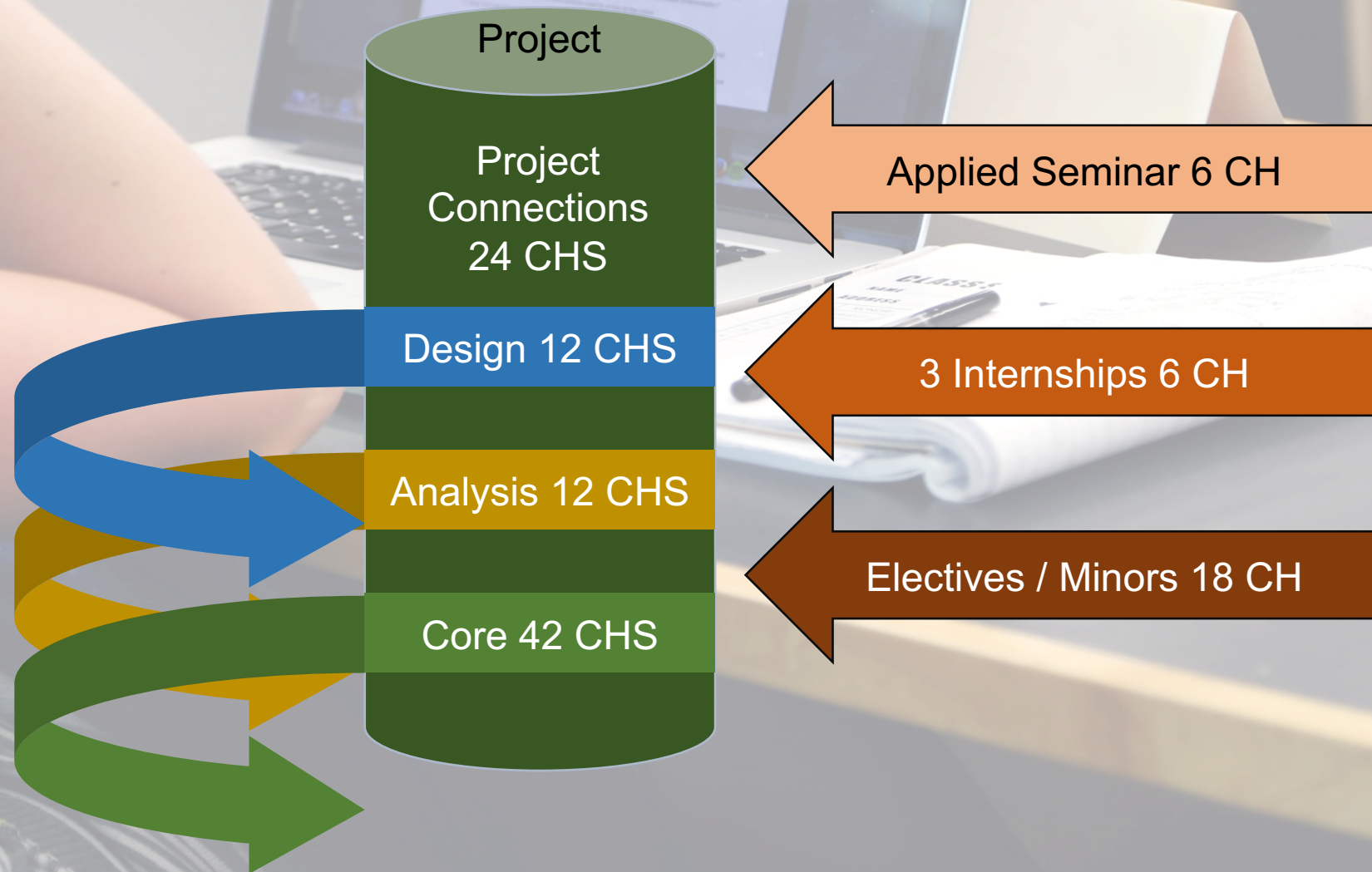
1. Critical Thinking
2. Communications
3. Collaborative Teamwork
4. Digital Technology
5. Leadership
6. Work Ethic
7. Career Management
8. Global Intellectual Fluency

# UNT Frisco PBL Delivery Model



# Problem Based Cohort Learning

120 hours revolve around the project





# B.S. Project Design & Analysis – Sample Degree Plan

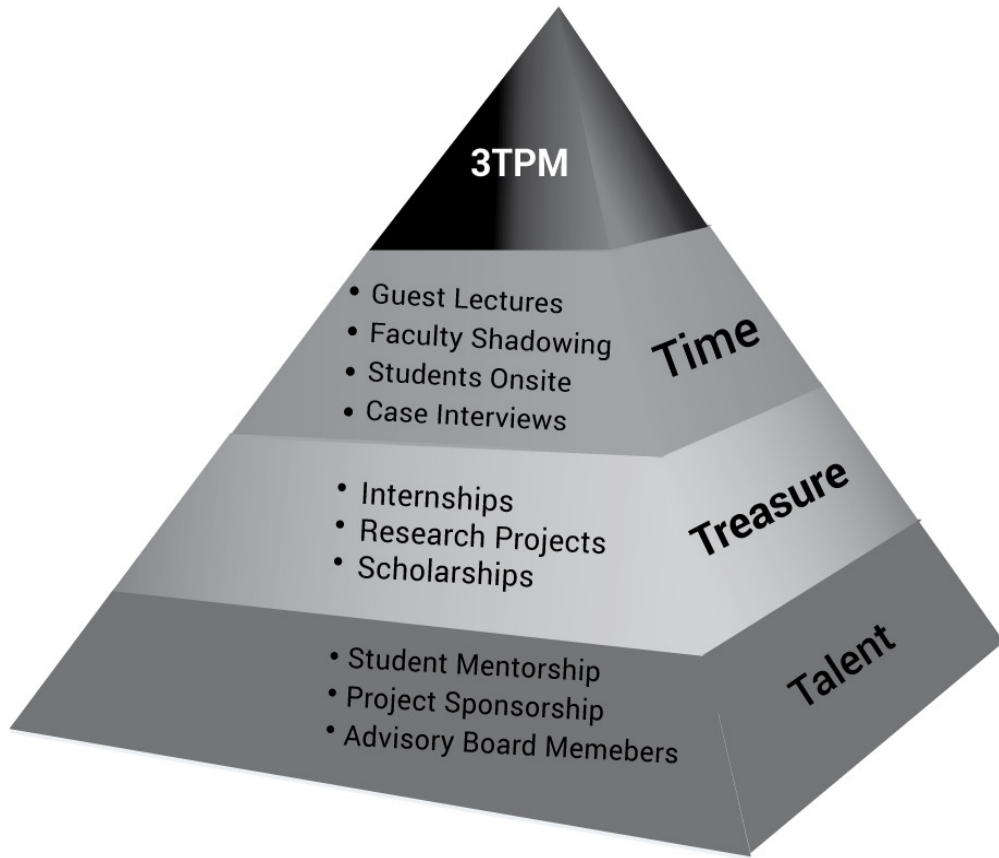
	Year 1 Fall 2019 – Spring 2020			Year 2 Fall 2020 – Spring 2021			Year 3 Fall 2021 – Spring 2022		
Cohort Classes	<ul style="list-style-type: none"> <li>Collaborative Thinking (4 CHs)</li> <li>College Writing I</li> <li>US History pre-1865</li> <li>General Psychology</li> <li>Elective</li> </ul>	<ul style="list-style-type: none"> <li>Professional Communication (4 CHs)</li> <li>College Writing II</li> <li>US History since 1865</li> <li>Probability &amp; Statistics</li> <li>Cont. Moral Issues</li> </ul>	I N T E R N S H I P	<ul style="list-style-type: none"> <li>Problem Analysis (4 CHs)</li> <li>Constitution &amp; Inst.</li> <li>Context Chemistry</li> <li>Macroeconomics</li> <li>Design Thinking</li> </ul>	<ul style="list-style-type: none"> <li>Team Creativity (4 CHs)</li> <li>Political Behavior &amp; Policy</li> <li>Environmental Science</li> <li>Trend Analysis &amp; Forecast</li> <li>Elective</li> </ul>	I N T E R N S H I P	<ul style="list-style-type: none"> <li>Global Design (4 CHs)</li> <li>Intro Race &amp; Ethics</li> <li>Jazz in US &amp; World Hist.</li> <li>Business Statistics &amp; SS</li> <li>Creative Design</li> </ul>	<ul style="list-style-type: none"> <li>Thinking in Leadership (4 CHs)</li> <li>Design Anthropology</li> <li>Intro to Math Modeling</li> <li>Intro to Org Design-Change</li> <li>Data Mining &amp; Ops Research</li> </ul>	I N T E R N S H I P
Seminars	Seminars in Applied Innovation			Seminars in Applied Innovation			Seminars in Applied Innovation		
Sample Tools	PowerPoint Zoom Slack	Advanced Power Point Excel Microsoft Teams		Advanced Excel JIRA	Mini Tab (Six Sigma) Axure		Product Development	Tableau (Data Analysis)	
External Certs (Eligible)				Agile Practitioner 6Sigma Yellow Belt	CAPM (PMI)		6 Sigma Green Belt Design Thinking - IAIOIP	*PMP – PMP *SCRUM Master *Certified Innovator	
Credit Hours	17	17	6	17	17	6	17	17	6

Certifications are external  
\* Eligible after Graduation



BS Project Design & Analysis  
THECB approved  
SACSCOC approved

# And we found some business partners!



# We found some students! City of Frisco Industry Partner Cohort 1~ 21 students



# Weekly Applied Seminars

## Partnering with Faculty, Student Services & Corporations

- 4 sessions with business partners on the project
- Guest speakers from partner organizations
- Personal skill development & leadership skills
- Visits to local companies and organizations
- Participation in volunteer and outreach events



*On-site learning courtesy of Toyota of Plano*



*Keohane leadership series with guest speaker Allan Mullaly & President Smartesk*

# A sample week in the life of a student Fall 2019

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00					
9:00					
10:00	History Dr. Welch	Seminar Applied Innovation	Connection Lab	Collaboration Professor Ali	
11:00	Integrated Mini Project			Integrated Mini Project	
12:00					
1:00					
2:00	English Dr. Childers	Scholarly Research Professor Ali	Psychology Dr. Clayton		
3:00	Integrated Mini Project		Integrated Mini Project		
4:00					
5:00					
6:00					
7:00					
8:00					

\*Students also need one elective



## Fall 2019 – Mobility

- From driverless cars to scooters to bikes, our modes of transportation needs are evolving
- Students will be deeply immersed with projects in this area by working with the city on driverless car route recommendation

## Spring 2020 – Frisco Development Services

- The city of Frisco is growing rapidly, and development services must keep in pace with this development
- Students will work with the city to identify innovative ways to help the city in getting new restaurant businesses to open faster

# Semester 1 – Client Presentation – Brian Moen

<https://drive.google.com/drive/folders/12VucYPqNQvkHsGstzof8gDfesTBhnlEt>

## **Final Presentation**

# Students have several journeys that they can take

## Project Design & Analysis 3 Year Degree

1. Emphasis in ***Applied Technology***
2. Emphasis in ***Digital Marketing & Sales***
3. Political Science Certificate (***Pre-Law***)
4. Minor in Biology or Chemistry (***Pre-Med***)
5. Create your ***own emphasis***


Students automatically qualify for Honors College with cohort classes with a GPA of 3.35 or above

### Note:

- 5 to 6 classes to achieve emphasis or minors
- Not all classes for emphasis or minors offered in Frisco
- Attempts will be made to have all classes in Frisco



# What can I do with this degree?

- 
- **Business analyst in Business or Information Technology (IT)**
  - **Project Manager role in several industries**
  - **Pre-sales Consultant / Consultant / Account Manager**
  - **Data analyst in running the operations of an organization**
  - **Pursue your own unique career pathway!**

# How do we apply?

1. Online application:
  - Go to [applytexas.org](https://applytexas.org)
  - Choose 4-year institution
  - University of North Texas (Denton)
  - New College
  - Project Design & Analysis
2. Complete supplemental application form
3. Schedule an interview (if not doing one tonight)
  - Email Danielle Freeling at [danielle.wong@unt.edu](mailto:danielle.wong@unt.edu) or [michael.casias@unt.edu](mailto:michael.casias@unt.edu)
  - Request to schedule an interview with one of the following:
    - Dr. Hope Garcia
    - Dr. Shari Childers
    - Professor Zain Ali

The screenshot shows the ApplyTexas website. At the top, there is a navigation bar with the ApplyTexas logo (a red star) and the tagline "Many Schools One Application". To the right of the logo are links for "About ApplyTexas", "Help", and "Counselors & Administrators log in here »".

The main content area has a white background with a blue border. It features the heading "Explore. Apply. Repeat." in blue. Below this heading are three columns of text:

- Research your options.** Admission information for every Texas public university and two-year school, plus many private colleges and universities. [Begin your search »](#)
- Apply online.** Complete and submit your admission and scholarship applications online. [Get started now »](#), [Preview the 2020-2021 applications »](#), [Preview the 2019-2020 applications »](#), [View the 2020-2021 essay prompts »](#)
- Do it again.** No need to start from scratch. Copy a completed application and use it to apply to another school. [Learn how »](#)

Below these columns is a light blue banner with the text: "Essay prompts for U.S. Freshman and International Freshman applications for enrollment in Summer 2020, Fall 2020, and Spring 2021 have changed. You may preview the [new essay prompts here.](#)"

The bottom section of the page has a dark red header with two options:

- First time here? No problem.** [Get started »](#)
- Already have an account?** [Log in now](#)

Under the "Log in now" option, there is a login form with fields for "username" (containing "zali@sunbonn.com") and "password" (containing "\*\*\*\*\*"). There is a "Log in" button and a link for "Problems logging in? Click here".

Under the "Get started »" option, there is a white box with the text: "It's fast. It's easy. It's free." and a link for [Create your account now »](#).

# Semester 1 – Final Presentation – Kerin Smith

<https://drive.google.com/drive/folders/12VucYPqNQvkHsGstzof8gDfesTBhnlEt>

**Final Presentation**