

# DSCI 5180 Introduction to the Business Decision Process

## Instructor Contact

**Name:** Dr. Arunachalam (Chalam) Narayanan

**Pronouns:**

**Office Location:** BLB 379J

**Office Hours:** Some office hours will be held through my Zoom link: <https://unt.zoom.us/my/chalamunt>. I will be available from:

- Monday (In Office) - 10:30 – Noon
- Tuesday (Zoom) – 6 – 7pm
- Wednesday (In Office) 10:30 – 11:30 am
- Thursday (Zoom) – 12 – 1pm or by appointment

**Email:** [chalam@unt.edu](mailto:chalam@unt.edu)

**Communication Expectations:** The primary mode of communication is email. Allow up to 48 hours for reply, if not please contact again. I will maintain regular office hours and you are also welcome ask questions during that time.

## Welcome to UNT!

As members of the UNT community, we have all made a commitment to be part of an institution that respects and values the identities of the students and employees with whom we interact. UNT does not tolerate identity-based discrimination, harassment, and retaliation. UNT's full Non-Discrimination Policy can be found in the UNT Policies section of the syllabus.

## Course Description

The aim of this course is to cover basic statistical skill sets so that the user could perform and interpret advanced analysis. Topics include hypothesis testing, simple regression, multiple regression (including qualitative variable coding, and model building). We will utilize statistical, tables, calculator, excel and statistical software such as Minitab to achieve our objective. The projects and assignments will be geared toward using quantitative methods for business decision making.

## Course Structure

This course takes place 100% online. We may have a couple video conferences using Zoom throughout the semester. Other than that, you instructor will have several open online and on-campus office hours every week for students to interact with the instructor. All lectures and tutorials are recorded as video and made available through canvas. All assignments are made available to the textbook publisher (Hawkes Learning) website. Other than that, your interaction with me and with your fellow students will take place in Canvas. There are 14 weeks of content that you will move through in 5 weeks. All the modules will be made available from Week 1.

## Course Prerequisites or Other Restrictions

There are no required prerequisite UNT classes for this course. However, in order to be successful the student should have the knowledge of basic undergraduate statistics. For students with background

course deficiencies. UNT and College of Business have partnered with Ivy Software and Responsive.net to provide several self-paced online course modules to serve as an alternative route to completing this requirement. For this course, the equivalent course module in Ivy Software is "Business Math and Statistics" and in Responsive.net is "Statistics Foundation." In addition, you should have access to a laptop with desktop with ability to connect to UNT virtual systems to access statistical software, to retrieve and play media and lecture materials in Canvas and also perform online assignments in Hawkes Learning System (HLS).

## Course Objectives

By the end of this course, students will be able to:

1. Read and communicate in the language of applied business statistics.
2. Interpret common probability distributions, statistical tables and articulate the role of experimental designs.
3. Construct confidence intervals and interpret the meaning in business context.
4. Construct and test hypothesis using sample and population data.
5. Build models using Simple and Multiple Regression.
6. Acquire the ability to use statistical calculator, Microsoft Excel and software such as Minitab to do analysis.
7. Use a computer to describe and analyze numerical data in business context.
8. Select appropriate statistical techniques that can help them in evaluating or justifying business decisions.
9. In general, acquire a positive attitude toward business statistics and how it is relevant for your future coursework and decision making.

## Materials

The required text for this course is: *Discovering Business Statistics, Second Edition*, Nottingham and Hawkes, Hawkes Learning Systems.

The required software for this course includes Hawkes Learning, Excel, and JMP/SPSS/Minitab. Please find details about each software below.

### Hawkes Learning: *Discovering Business Statistics by Nottingham*

This software is REQUIRED to complete the assigned work (organized in Modules) for the class. Your personal access code to the software will enable you complete the lesson certifications and Web-based tests, (called HLS lessons and Module Quizzes). The software may be purchased online [at Hawkes Learning website](http://www.hawkeslearning.com/) (<http://www.hawkeslearning.com/>). Once you have purchased the access-rights to the software, you may complete any/all class-work using HLS Network version accessed through the [HLS portal](https://learn.hawkeslearning.com/Portal/User/Login?ReturnUrl=%2fPortal) (<https://learn.hawkeslearning.com/Portal/User/Login?ReturnUrl=%2fPortal>). When registering for the course, be sure to enter your name as the registrar at UNT has it; and choose University of North Texas-Denton as the campus. Remember to choose your appropriate **Section (DSCI 5180 – Spring 2023 – 8wk1 Chalam)**. The software includes access to the eBook. So, hard copy of the Text is NOT required, unless you want it (for whatever reasons).

## Microsoft Excel with Data Analysis (solver-options activated)

You may be familiar with Excel; but its essential use for this course is illustrated in the Text (under the "Discovering Technology" segment) and on the [Hawkes Learning website](https://www.hawkeslearning.com/Statistics/dbs/technology.html) (<https://www.hawkeslearning.com/Statistics/dbs/technology.html>). As a UNT student, you can install Microsoft Office for free through the [UIT Help Desk](https://it.unt.edu/installoffice365) (<https://it.unt.edu/installoffice365>).

## JMP/SPSS

You can access JMP/SPSS by browser via the Ryan College of Business' virtual computer laboratory. Download access software at [College of Business website](https://cob-view.coba.unt.edu/) (<https://cob-view.coba.unt.edu/>).

## Minitab

This software is no longer available in the VMware, but can be purchased for cheap at estore (onthehub) or downloaded for a one-month trial access at: <https://www.minitab.com/en-us/products/minitab/free-trial/>. If you are downloading the trial version, do it during the last 4 weeks of your 8-week semester.

## Teaching Philosophy

This is an online course and as such much of the learning responsibility falls upon the student. However, as an instructor – I will act as a facilitator in help you achieve the stated goal of this course. In the canvas, you will find lecture materials, videos and useful links to help you understand the various topics discussed in this course. The assignments will all be administered through Hawkes Learning website. I encourage questions from the class, at the same time – I would also want you to use all the available resources in canvas and HLS to achieve your objective.

In order to ensure you understand the material, we have designed a project for this course. It is self-directed, where you bring the data, ask the right questions and provide the answers using the statistical skills learnt in this course. This is the best way to ensure you assimilate the topics covered in this class. Remember, every business decision needs justification, for that we need data and the next step is to use analytics (statistics) to examine it.

## Course Technology & Skills

### Minimum Technology Requirements

Please ensure access to the following:

- Computer and Reliable internet access
- The Zoom app on laptop/desktop and optionally on your smart phone or other suitable devices.
- UNT's Respondus Lockdown Browser on the laptop/desktop. You may need to [install Respondus Lockdown Browser](https://download.respondus.com/lockdown/download.php?id=165715487) (<https://download.respondus.com/lockdown/download.php?id=165715487>) for your final exam.
- Microsoft Office Suite
- [Canvas Technical Requirements](https://clear.unt.edu/supported-technologies/canvas/requirements) (<https://clear.unt.edu/supported-technologies/canvas/requirements>)

### Computer Skills & Digital Literacy

Provide a list of course-specific technical skills learners must have to succeed in the course, such as:

- Sending and receiving email
- Creating, sending, and receiving Microsoft Word documents

- Create, edit and do analysis (using simple formulas) in Microsoft Excel
- Basic knowledge of Probability distribution tables
- Posting to discussion boards
- Printing Word documents **or** opening and printing PDF files, using free Adobe Acrobat Reader
- Navigating Canvas

### Technical Assistance

Part of working in the online environment involves dealing with the inconveniences and frustration that can arise when technology breaks down or does not perform as expected. Here at UNT we have a Student Help Desk that you can contact for help with Canvas or other technology issues.

**UIT Help Desk:** [UIT Student Help Desk site](http://www.unt.edu/helpdesk/index.htm) (<http://www.unt.edu/helpdesk/index.htm>)

**Email:** [helpdesk@unt.edu](mailto:helpdesk@unt.edu)

**Phone:** 940-565-2324

**In Person:** Sage Hall, Room 130

**Walk-In Availability:** 8am-9pm

**Telephone Availability:**

- Sunday: noon-midnight; Saturday: 9am-5pm
- Monday-Thursday: 8am-midnight; Friday: 8am-8pm

**Laptop Checkout:** 8am-7pm

For additional support, visit [Canvas Technical Help](https://community.canvaslms.com/docs/DOC-10554-4212710328) (<https://community.canvaslms.com/docs/DOC-10554-4212710328>)

### Rules of Engagement

Rules of engagement refer to the way students are expected to interact with each other and with their instructors. Here are some general guidelines:

- While the freedom to express yourself is a fundamental human right, any communication that utilizes cruel and derogatory language on the basis of race, color, national origin, religion, sex, sexual orientation, gender identity, gender expression, age, disability, genetic information, veteran status, or any other characteristic protected under applicable federal or state law will not be tolerated.
- Treat your instructor and classmates with respect in any communication online or face-to-face, even when their opinion differs from your own.
- Ask for and use the correct name and pronouns for your instructor and classmates.
- Speak from personal experiences. Use “I” statements to share thoughts and feelings. Try not to speak on behalf of groups or other individual’s experiences.
- Use your critical thinking skills to challenge other people’s ideas, instead of attacking individuals.
- Avoid using all caps while communicating digitally. This may be interpreted as “YELLING!”
- Be cautious when using humor or sarcasm in emails or discussion posts as tone can be difficult to interpret digitally.
- Avoid using “text-talk” unless explicitly permitted by your instructor.
- Proofread and fact-check your sources.
- Keep in mind that online posts can be permanent, so think first before you type. See these [Engagement Guidelines](https://clear.unt.edu/online-communication-tips) (<https://clear.unt.edu/online-communication-tips>) for more information.

## Course Requirements

There are 5 content modules total in this course. Each Module-work will involve completion of the constituent lessons (HLS quizzes/certification), followed by a Module Quiz (summary quiz as WebTest). The following will be utilized to assess students' learning/grading.

<b>Assignment</b>	<b>Points Possible</b>	<b>Percentage of Final Grade</b>
<b>Participation</b> <ul style="list-style-type: none"><li>• <i>Introduction Discussion Forum (2 points)</i></li><li>• <i>Signed Ethics Statement (3 points)</i></li><li>• <i>Register in HLS and complete first lesson (HLS 7.2) @ 10 points</i></li></ul>	<i>15 points</i>	<i>3%</i>
<b>HLS Lessons/Certifications (Next 20 @ 10 points each)</b>	<i>200 points</i>	<i>40%</i>
<b>Module Quizzes (5 @ 25 points each)</b>	<i>125 points</i>	<i>25%</i>
<b>Project</b> <ul style="list-style-type: none"><li>• <i>Midterm Report (20 points)</i></li><li>• <i>Final Report (40 points)</i></li></ul>	<i>60 points</i>	<i>12%</i>
<b>Final Exam</b>	<i>100 points</i>	<i>20%</i>
<b>Extra Credit (2 additional HLS and possible PhD surveys)</b>	<i>15 points</i>	<i>3%</i>
<b>Total Points Possible</b>	<i>500 points (+15 possible extra credit points)</i>	<i>100%</i>

### Participation

We want you to get a head start as soon as possible and I want to give you an incentive for doing this (that is why we are giving 15 points for this effort).

- **3 points:** For turning in the ethics statement (signed ethics statement).
- **2 points:** For posting a brief introduction about yourself in the Introduction Discussion Board. I have started with my introduction. I feel graduate studies is more of peer to peer learning rather than instructor-student learning, so knowing your batch mates is important. I want to initiate/cultivate that in my class.
- **10 points:** Register in HLS website for this course and complete first HLS assignments. HLS Lessons/Certifications

The primary resource of instruction is the Hawkes Learning Systems (HLS): Business Statistics, which consists of a series of lessons. For ease, selected lessons are set in sequential Modules. In all, the course has 5 modules, which all require the completion of 4 to 6 lessons within each, for a total of 23 lessons/Hawkes assignments. (The first one is part of intro, next 20 are 10 points each, if you complete additional ones – that is considered as bonus and you receive 5 points for each). Note: The final module is very useful, so don't skip the final two!

Each lesson should be completed by:

1. First following the demonstration provided therein,
2. Reading/watching the lecture material,

3. Doing a few practice exercises, and then
4. Finally, completing its certification.

Note that the lesson numbers mostly match the chapter and section numbers in the Text and e-Book. The questions in the certification segment require you to answer (input them) sequentially, as you move forward. The certification in specific lessons recognizes your proficiency in the material covered therein. When you use the HLS Web-portal, your certification is automatically entered in the Grade book. But before exiting HLS, please ensure proper recording of your work in the grade book. If you complete the Hawkes assignments on time, you receive the full 10 points. Every week you are late you lose 20% of the points for HLS assignments. Timely certification is of the essence in aiding learning, and getting you maximum credits and a good grade in the course. Please DO NOT plan on doing several certifications in one sitting (never more than two to three). The key is in getting an early head-start on the modules. Further details on due dates are provided later in this syllabus.

The tutorials in HLS are intended to instruct and train you in the certification procedure. The assigned readings of the sections from the Text present a supplement to these tutorials. These sections may be read with the matching study/reading material before attempting each HLS lesson. The end-of-the-chapter exercises are meant to further reinforce the material. Many such exercises have answers at the back of the text, for verification.

Reading of the material that is not directly assigned for any reason (but is presented in the Text) also may help develop better appreciation for the methodologies. (For example: read up Lessons 1 through 7 (Chapters 1 through 7 of the Text) if you need a quick review of the course pre-requisite material; or Chapter sections 13. 6, 7 and 9 before moving to Chapter 14 in the assigned segments etc.). But such reading is not considered essential for the course (else it would be assigned too). Such reading is recommended specially for the students that plan on taking another follow-up course, and/or have a little more time and inclination. You should also make note of the concepts that underlie the repetitive arithmetic of the HLS, as you would in a face-to-face class.

#### Random Knowledge checks

Since this is an online course and the HLS assignments are done without any in-class monitoring tools, we reserve the right to test you further on your submissions during the semester. We would randomly check your knowledge on the topics and see how you answered the assignments. As long as it is your work, you will NOT have any issues. Only students who plagiarize will be reported to the Dean of students for further actions. Remember, anything you submit to the class should be your work and you should be able to explain the answer and repeat/show the process again when questioned.

#### Module Quizzes (See deadlines in schedule)

After the completion of the lessons in each Module of the course you should complete a Module Quiz (covering the lessons that constituted the part, like the mid-terms, in face to face classes). Module Quizzes will be available for taking only in specific time-windows that match/follow the stipulated work. This is done, to ensure that we follow a general timeline.

Statistics is easier absorbed in smaller doses; so please spread your consumption over longer time. Plan on having a few alternative time slots for the HLS work; that way you may afford a break if/when the material appears hard.

For each Module Quiz, you will get two attempts and the highest one will count. **Module quizzes have strict deadline.** Each module quiz has about 6-15 questions and has an assigned time of one hour from the time you start.

### Project

You can appreciate the subject only when you apply it yourself to your environment (either work or something you are familiar with). This course covers topics such as Normal distribution, confidence intervals, comparison of means and statistical regression. These are important fundamental topics, but it gets lost in the details. I want you to appreciate the importance of it. The aim of the project is to achieve that.

#### *Midterm Report (20 points) – Due Feb 15th, Wednesday*

This report should be no more than 1.5-2 pages. Your source of data and what you want to accomplish based on the topics you learnt (learning from this course). You are welcome to discuss with me by email or in office before doing it. Preferred mode of discussion is meeting in zoom or in-person in office. If using email, be specific. Feedback on the report will be provided by Feb 20th. (If midterm report is submitted early, we will try to provide the feedback would be provided within 72 hours). Remember, the key is for you to at least provide questions you would like to ask from the data based on 1st three modules. See Project Module for More details. The key for the project: Select datasets with at least 30 data points (it would be better with more data like 100 data points). Come up with sensible questions that needs statistical validation! Some possible data sources and sample questions will be provided in a separate project documentation. If the data is not good, you will receive 0 in the midterm report, but feedback will be given on how to fix and move towards the final project.

#### *Final Report (40 points) –Due March 9<sup>th</sup>, Thursday*

The final report should be no more than 2-3 pages. The dataset and actual analysis should be submitted as an appendix. Present the findings using the skillset acquired (topics covered) in class. Include the dataset along with the analysis (could be excel or any statistical package).

#### *Written (Typed) Work Submission*

Students are required to submit written assignments for this class to Turnitin, a web-based plagiarism detection service. Before submitting your paper to Turnitin, **please remove your title page and other personal information.** Any paper that is not submitted to Turnitin may not be accepted by the instructor and may not be graded.

#### *Final Exam (March 10<sup>th</sup>, Friday – as per UNT schedule) – 5pm – 9pm*

This last Comprehensive Quiz will be over the 23 HLS lessons. The final exam has about 25 questions (some with many parts) and has an assigned time of two hours from the time you start. If you have any issues with the timing of exam, reach out to the instructor early with the reason.

### Extra Credit

If you finish all HLS assignments, it will be considered bonus and you can receive 5 points for each for the last 2. (so in theory if you finish all 23 HLS and 20 of them in time, you can receive 10 additional points!). There would be additional opportunity for doing surveys or participate in research studies for 5 bonus points. In all there is opportunity to get 15 additional points (3% of the grade) by completing all

assignments in time. I encourage you to use all the available opportunities to be successful in this course.

### Grading

Include the grading scale (A-F) along with the point totals/percentages you will use to calculate the final grade. For example:

A = 90-100%

B = 80-89%

C = 70-79%

D = 60-69%

F = 50-59%

### Course Evaluation

Student Perceptions of Teaching (SPOT) is the student evaluation system for UNT and allows students the ability to confidentially provide constructive feedback to their instructor and department to improve the quality of student experiences in the course. The survey will be enabled by the University Administration toward the end of the semester; and will be accessible through your [my.unt.edu](https://my.unt.edu). Please complete it in the time-window provided.

### Course Policies

#### Assignment Policy

Being fully online, the content delivery, due dates etc. will not be deemed affected by any problem (including any possibly weather-related ones). Hence, necessities of making any changes in the lesson/module due-dates appearing in this syllabus are not foreseen.

On completion of a module in a RCOB lab, or at home, you should save the HLS certification code to your disk. If you are connected to the internet the module will register automatically but always double check that you have received credit by going to your progress report.

Late submissions (of HLS assignments) still receive partial credit, every week you are late you lose 20% of the points. The last day to complete your HLS assignments is the day of the final project submission as listed in the schedule. No credit is awarded for any exercise completed after this date. Remember: There are no late submissions for Module quizzes, projects and Final Exam.

#### Excuses

Please be mindful of the excuses you seek and do not use it in vain. It is important that you communicate with me prior to being absent so I may decide about accommodating your request to be excused from class.

#### Examination Policy

No make-up exams, quizzes or assignments are given without an appropriate University approved excuse. The exam will be administered online and may require lockdown browser. You cannot use any outside resources like Google or third-party websites or person to complete the exam, using it would be considered ethical violation. Any issues related to on time completion or credit for the modules and online quizzes/exams should be resolved with the instructor within one week following their respective



due dates. Such issues cannot be considered weeks later and especially not during compilation of the final grades, at the end of the semester.

### Late Work

**There are no late submissions for Module quizzes, projects and Final Exam. They have strict deadlines.**

Late submissions (of HLS assignments) still receive partial credit, every week you are late you lose 20% of the points. The last day to complete your HLS assignments is the day of the final project submission as listed in the schedule. No credit is awarded for any exercise completed after this date. Remember: There are no late submissions for Module quizzes, projects and Final Exam.

### Attendance Policy

This is an online course and you are required to complete the assignments as stated in the course syllabus to achieve your required grade. We do not take attendance during the office hours and they are for general questions. During the semester, there may be one or two sessions where we may require your presence online, if you are unable to attend those – please discuss your options with the instructor. Remember all assignments and Exams have strict deadlines and time window, complete them within that time.

### Discrepancies Between Canvas and Hawkes Learning

The Module-wise coverage given here is general in nature. Should there be any conflict between this and what is laid out in detail in the assignment of the lessons in HLS, the latter takes precedence; so, please be mindful of checking the due dates within the HLS Progress reports.

### Student Grievances

Any unresolved issue (affecting grade/standing etc.) remaining at the end of the semester may be followed up with me ASAP. This may save initiation of any appeals procedures (though time-consuming, those options are always available to students).

### Syllabus Change Policy

Given that this is an online course, I do not anticipate that any due dates will change. However, I reserve the right to make any changes to the syllabus that I deem necessary.

### UNT Policies

#### Academic Integrity Policy

Academic Integrity Standards and Consequences. According to UNT Policy 06.003, Student Academic Integrity, academic dishonesty occurs when students engage in behaviors including, but not limited to cheating, fabrication, facilitating academic dishonesty, forgery, plagiarism, and sabotage. A finding of academic dishonesty may result in a range of academic penalties or sanctions ranging from admonition to expulsion from the University. For this course, the ITDS ethics statement clearly delineates what activities are considered as violation, including some examples. An academic integrity violation will lead to a "F" grade in this course.

#### ADA Policy

UNT makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability Access (ODA) to verify their eligibility. If a disability is verified, the ODA will provide a student with an accommodation letter to be delivered to

faculty to begin a private discussion regarding one's specific course needs. Students may request accommodations at any time, however, ODA notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet with each faculty member prior to implementation in each class. For additional information see the [ODA website](https://disability.unt.edu/) (<https://disability.unt.edu/>).

The College of Business Administration complies with the Americans with Disabilities Act in making reasonable accommodations for qualified students with disability. If you have an established disability as defined in the "Act" and would like to request accommodation, please contact the ODA and your instructor (Dr. Chalam) as soon as possible: the instructor's office hours and phone number are in the syllabus.

#### [Prohibition of Discrimination, Harassment, and Retaliation \(Policy 16.004\)](#)

The University of North Texas (UNT) prohibits discrimination and harassment because of race, color, national origin, religion, sex, sexual orientation, gender identity, gender expression, age, disability, genetic information, veteran status, or any other characteristic protected under applicable federal or state law in its application and admission processes; educational programs and activities; employment policies, procedures, and processes; and university facilities. The University takes active measures to prevent such conduct and investigates and takes remedial action when appropriate.

#### [Emergency Notification & Procedures](#)

UNT uses a system called Eagle Alert to quickly notify students with critical information in the event of an emergency (i.e., severe weather, campus closing, and health and public safety emergencies like chemical spills, fires, or violence). In the event of a university closure, please refer to Canvas for contingency plans for covering course materials.

#### [Retention of Student Records](#)

Student records pertaining to this course are maintained in a secure location by the instructor of record. All records such as exams, answer sheets (with keys), and written papers submitted during the duration of the course are kept for at least one calendar year after course completion. Course work completed via the Canvas online system, including grading information and comments, is also stored in a safe electronic environment for one year. Students have the right to view their individual record; however, information about student's records will not be divulged to other individuals without proper written consent. Students are encouraged to review the Public Information Policy and the Family Educational Rights and Privacy Act (FERPA) laws and the University's policy. See UNT Policy 10.10, Records Management and Retention for additional information.

#### [Acceptable Student Behavior](#)

Student behavior that interferes with an instructor's ability to conduct a class or other students' opportunity to learn is unacceptable and disruptive and will not be tolerated in any instructional forum at UNT. Students engaging in unacceptable behavior will be directed to leave the classroom and the instructor may refer the student to the Dean of Students to consider whether the student's conduct violated the Code of Student Conduct. The University's expectations for student conduct apply to all instructional forums, including University and electronic classroom, labs, discussion groups, field trips, etc. Visit UNT's [Code of Student Conduct](https://deanofstudents.unt.edu/conduct) (<https://deanofstudents.unt.edu/conduct>) to learn more.

### Access to Information - Eagle Connect

Students' access point for business and academic services at UNT is located at: [my.unt.edu](https://my.unt.edu). All official communication from the University will be delivered to a student's Eagle Connect account. For more information, please visit the website that explains Eagle Connect and how to forward e-mail [Eagle Connect](https://it.unt.edu/eagleconnect) (<https://it.unt.edu/eagleconnect>).

### Student Evaluation Administration Dates

Student feedback is important and an essential part of participation in this course. The student evaluation of instruction is a requirement for all organized classes at UNT. The survey will be made available during weeks 13, 14 and 15 [insert administration dates] of the long semesters to provide students with an opportunity to evaluate how this course is taught. Students will receive an email from "UNT SPOT Course Evaluations via IASystem Notification" ([no-reply@iasystem.org](mailto:no-reply@iasystem.org)) with the survey link. Students should look for the email in their UNT email inbox. Simply click on the link and complete the survey. Once students complete the survey they will receive a confirmation email that the survey has been submitted. For additional information, please visit the [SPOT website](http://spot.unt.edu/) (<http://spot.unt.edu/>) or email [spot@unt.edu](mailto:spot@unt.edu).

### Sexual Assault Prevention

UNT is committed to providing a safe learning environment free of all forms of sexual misconduct, including sexual harassment sexual assault, domestic violence, dating violence, and stalking. Federal laws (Title IX and the Violence Against Women Act) and UNT policies prohibit discrimination on the basis of sex, and therefore prohibit sexual misconduct. If you or someone you know is experiencing sexual harassment, relationship violence, stalking, and/or sexual assault, there are campus resources available to provide support and assistance. UNT's Survivor Advocates can assist a student who has been impacted by violence by filing protective orders, completing crime victim's compensation applications, contacting professors for absences related to an assault, working with housing to facilitate a room change where appropriate, and connecting students to other resources available both on and off campus. The Survivor Advocates can be reached at [SurvivorAdvocate@unt.edu](mailto:SurvivorAdvocate@unt.edu) or by calling the Dean of Students Office at 940-565- 2648. Additionally, alleged sexual misconduct can be non-confidentially reported to the Title IX Coordinator at [oeo@unt.edu](mailto:oeo@unt.edu) or at (940) 565 2759.

### Important Notice for F-1 Students taking Distance Education Courses

#### **Federal Regulation**

To read detailed Immigration and Customs Enforcement regulations for F-1 students taking online courses, please go to the [Electronic Code of Federal Regulations website](http://www.ecfr.gov/) (<http://www.ecfr.gov/>). The specific portion concerning distance education courses is located at Title 8 CFR 214.2 Paragraph (f)(6)(i)(G).

The paragraph reads:

(G) For F-1 students enrolled in classes for credit or classroom hours, no more than the equivalent of one class or three credits per session, term, semester, trimester, or quarter may be counted toward the full course of study requirement if the class is taken on-line or through distance education and does not require the student's physical attendance for classes, examination or other purposes integral to completion of the class. An on-line or distance education course is a course that is offered principally through the use of television, audio, or computer transmission including open broadcast, closed circuit,

cable, microwave, or satellite, audio conferencing, or computer conferencing. If the F-1 student's course of study is in a language study program, no on-line or distance education classes may be considered to count toward a student's full course of study requirement.

### **University of North Texas Compliance**

To comply with immigration regulations, an F-1 visa holder within the United States may need to engage in an on-campus experiential component for this course. This component (which must be approved in advance by the instructor) can include activities such as taking an on-campus exam, participating in an on-campus lecture or lab activity, or other on-campus experience integral to the completion of this course.

If such an on-campus activity is required, it is the student's responsibility to do the following:

(1) Submit a written request to the instructor for an on-campus experiential component within one week of the start of the course.

(2) Ensure that the activity on campus takes place and the instructor documents it in writing with a notice sent to the International Student and Scholar Services Office. ISSS has a form available that you may use for this purpose.

Because the decision may have serious immigration consequences, if an F-1 student is unsure about his or her need to participate in an on-campus experiential component for this course, s/he should contact the UNT International Student and Scholar Services Office (telephone 940-565-2195 or email [internationaladvising@unt.edu](mailto:internationaladvising@unt.edu)) to get clarification before the one-week deadline.

### **Student Verification**

UNT takes measures to protect the integrity of educational credentials awarded to students enrolled in distance education courses by verifying student identity, protecting student privacy, and notifying students of any special meeting times/locations or additional charges associated with student identity verification in distance education courses.

See [UNT Policy 07-002 Student Identity Verification, Privacy, and Notification and Distance Education Courses](https://policy.unt.edu/policy/07-002) (<https://policy.unt.edu/policy/07-002>).

### **Use of Student Work**

A student owns the copyright for all work (e.g. software, photographs, reports, presentations, and email postings) he or she creates within a class and the University is not entitled to use any student work without the student's permission unless all of the following criteria are met:

- The work is used only once.
- The work is not used in its entirety.
- Use of the work does not affect any potential profits from the work.
- The student is not identified.
- The work is identified as student work.

If the use of the work does not meet all of the above criteria, then the University office or department using the work must obtain the student's written permission.

Download the UNT System Permission, Waiver and Release Form

## Transmission and Recording of Student Images in Electronically-Delivered Courses

1. No permission is needed from a student for his or her image or voice to be transmitted live via videoconference or streaming media, but all students should be informed when courses are to be conducted using either method of delivery.
2. In the event an instructor records student presentations, he or she must obtain permission from the student using a signed release in order to use the recording for future classes in accordance with the Use of Student-Created Work guidelines above.
3. Instructors who video-record their class lectures with the intention of re-using some or all of recordings for future class offerings must notify students on the course syllabus if students' images may appear on video. Instructors are also advised to provide accommodation for students who do not wish to appear in class recordings.

Example: This course employs lecture capture technology to record class sessions. Students may occasionally appear on video. The lecture recordings will be available to you for study purposes and may also be reused in future course offerings.

No notification is needed if only audio and slide capture is used or if the video only records the instructor's image. However, the instructor is encouraged to let students know the recordings will be available to them for study purposes.

## Academic Support & Student Services

### Student Support Services

#### *Mental Health*

UNT provides mental health resources to students to help ensure there are numerous outlets to turn to that wholeheartedly care for and are there for students in need, regardless of the nature of an issue or its severity. Listed below are several resources on campus that can support your academic success and mental well-being:

- [Student Health and Wellness Center](https://studentaffairs.unt.edu/student-health-and-wellness-center) (https://studentaffairs.unt.edu/student-health-and-wellness-center)
- [Counseling and Testing Services](https://studentaffairs.unt.edu/counseling-and-testing-services) (https://studentaffairs.unt.edu/counseling-and-testing-services)
- [UNT Care Team](https://studentaffairs.unt.edu/care) (https://studentaffairs.unt.edu/care)
- [UNT Psychiatric Services](https://studentaffairs.unt.edu/student-health-and-wellness-center/services/psychiatry) (https://studentaffairs.unt.edu/student-health-and-wellness-center/services/psychiatry)
- [Individual Counseling](https://studentaffairs.unt.edu/counseling-and-testing-services/services/individual-counseling) (https://studentaffairs.unt.edu/counseling-and-testing-services/services/individual-counseling)

#### *Chosen Names*

A chosen name is a name that a person goes by that may or may not match their legal name. If you have a chosen name that is different from your legal name and would like that to be used in class, please let the instructor know. Below is a list of resources for updating your chosen name at UNT.

- [UNT Records](#)

- [UNT ID Card](#)
- [UNT Email Address](#)
- [Legal Name](#)

*\*UNT eulDs cannot be changed at this time. The collaborating offices are working on a process to make this option accessible to UNT community members.*

### *Pronouns*

Pronouns (she/her, they/them, he/him, etc.) are a public way for people to address you, much like your name, and can be shared with a name when making an introduction, both virtually and in-person. Just as we ask and don't assume someone's name, we should also ask and not assume someone's pronouns.

You can [add your pronouns to your Canvas account](#) so that they follow your name when posting to discussion boards, submitting assignments, etc.

Below is a list of additional resources regarding pronouns and their usage:

- [What are pronouns and why are they important?](#)
- [How do I use pronouns?](#)
- [How do I share my pronouns?](#)
- [How do I ask for another person's pronouns?](#)
- [How do I correct myself or others when the wrong pronoun is used?](#)

### *Additional Student Support Services*

- [Registrar](https://registrar.unt.edu/registration) (https://registrar.unt.edu/registration)
- [Financial Aid](https://financialaid.unt.edu/) (https://financialaid.unt.edu/)
- [Student Legal Services](https://studentaffairs.unt.edu/student-legal-services) (https://studentaffairs.unt.edu/student-legal-services)
- [Career Center](https://studentaffairs.unt.edu/career-center) (https://studentaffairs.unt.edu/career-center)
- [Multicultural Center](https://edo.unt.edu/multicultural-center) (https://edo.unt.edu/multicultural-center)
- [Counseling and Testing Services](https://studentaffairs.unt.edu/counseling-and-testing-services) (https://studentaffairs.unt.edu/counseling-and-testing-services)
- [Pride Alliance](https://edo.unt.edu/pridealliance) (https://edo.unt.edu/pridealliance)
- [UNT Food Pantry](https://deanofstudents.unt.edu/resources/food-pantry) (https://deanofstudents.unt.edu/resources/food-pantry)

### *Academic Support Services*

- [Academic Resource Center](https://clear.unt.edu/canvas/student-resources) (https://clear.unt.edu/canvas/student-resources)
- [Academic Success Center](https://success.unt.edu/asc) (https://success.unt.edu/asc)
- [UNT Libraries](https://library.unt.edu/) (https://library.unt.edu/)
- [Writing Lab](http://writingcenter.unt.edu/) (http://writingcenter.unt.edu/)
- [MathLab](https://math.unt.edu/mathlab) (https://math.unt.edu/mathlab)

DSCI  
5180

# INTRODUCTION TO THE BUSINESS DECISION PROCESS

## Schedule

## Outline of Coursework

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All Modules **MUST** be completed by their due date/s for full credit. (We have approximately 40 working days and the modules are split by 8 working days, so the due days (Day of week) keep changing. But remember, you will always have at least one weekend in every module)

### Module 1: The Four Review Lessons (65 points)

The four Review Lessons (40 points) and Quiz (25 points) from Hawkes Learning and their due dates are:

- HLS 7.2: The Normal Distribution – Due Jan 20<sup>th</sup>, 2023 (**10 points added towards the Introduction**)
- HLS 7.3: Assessing Normality Graphically – Due Jan 26<sup>th</sup>, 2023
- HLS 7.4: The Standard Normal Distribution – Due Jan 26<sup>th</sup> 2023
- HLS 8.2: The Distribution of the Sample Mean and the Central Limit Theorem – Due Jan 26<sup>th</sup>, 2023
- **Module 1 Quiz - Due Jan 26<sup>th</sup>, 2023 - Thursday**

### Module 2: Confidence Intervals (Estimation) (55 points)

The three CI Lessons (30 points) and Quiz (25 points) from Hawkes Learning and their due dates are as follows:

- HLS 9.1: Estimating the Population Mean, Sigma Known – Due Feb 3<sup>rd</sup>, 2023
- HLS 9.2: Estimating the Population Mean, Sigma Unknown – Due Feb 3<sup>rd</sup>, 2023
- HLS 9.3: Estimating the Population Proportion – Due Feb 3<sup>rd</sup>, 2023
- **Module 2 Quiz - Due Feb 3<sup>rd</sup>, 2023- Friday**

### Module 3: Hypothesis Testing (Inference) (75 points)

The five HT (Inference) Lessons (50 points) and Quiz (25 points) from Hawkes Learning and their due dates are as follows:

- HLS 10.1: Introduction to Hypothesis Testing – Due Feb 13<sup>th</sup>, 2023
- HLS 10.2: Testing a Hypothesis about a Population Mean, Sigma Known (z-value) – Due Feb 13<sup>th</sup>, 2023
- HLS 10.3: Testing a Hypothesis about a Population Mean, Sigma Unknown (t-value) – Due Feb 13<sup>th</sup>, 2023

- HLS 10.4: The Relationship Between Confidence Interval Estimation and Hypothesis Testing – Due Feb 13<sup>th</sup>, 2023
- HLS 10.5: Testing a Hypothesis about a Population Proportion (z-Value)– Due Feb 13<sup>th</sup>, 2023
- Module 3 Quiz - **Feb 13<sup>th</sup>, 2023, Monday**

### Module 4: Inferences on Multiple Means (75 points)

The five Two-Population Inference Lessons (50 points) and Quiz (25 points) from Hawkes Learning and their due dates are as follows:

- HLS 11.1: Comparing Two Population Means – Due Feb 25<sup>th</sup>, 2023
- HLS 11.2: Comparing Two Small Sample Means ( $\sigma$  unknown) – Due Feb 25<sup>th</sup>, 2023
- HLS 11.3: Paired Difference tests – Due Feb 25<sup>th</sup>, 2023
- HLS 11.4: Comparing Two Proportions – Due Feb 25<sup>th</sup>, 2023
- HLS 12.3: ANOVA Comparison of Multiple Means - the exercise is only for 12.3. Review 12.1 and 12.2 Due Feb 25<sup>th</sup>, 2023
- Module 4 Quiz - **Due Feb 25<sup>th</sup>, 2023 , Saturday**

### Module 5: Inferences with Regressions (75 points)

The six Regression Lessons (50 points. Note: 20 HLS assignments are worth 10 points, the additional 2 are worth 5 points each - the first one in Module 1 is towards introduction) and Quiz (25 points) from Hawkes Learning and their due dates are as follows:

- HLS 13.1: The Simple Linear Regression Model – Due Mar 8<sup>th</sup>, 2023
- HLS 13.3: Evaluating the Fit of the Linear Regression Model – Due Mar 8<sup>th</sup>, 2023
- HLS 14.1: Multiple Regression Model – Due Mar 8<sup>th</sup>, 2023
- HLS 14.2: The Coefficient of Determination and Adjusted  $R^2$ – Due Mar 8<sup>th</sup>, 2023
- HLS 14.3: Multiple Regression and Inference on Coefficients – Due Mar 8<sup>th</sup>, 2023
- HLS 14.5 Models with Qualitative Independent Variables - Due Mar 8<sup>th</sup>, 2023
- Module 5 Quiz - **Due Mar 8<sup>th</sup>, 2023, Wednesday**

### Midterm/Final Project (60 points)

Mid term due date - Feb 15<sup>th</sup>, Wednesday

Final report due date - Mar 9<sup>th</sup>, Thursday (last day for any HLS assignments with partial credits)

For more details on the Midterm and Final Project, please visit the **[Midterm/Final Project Instructions and Guidelines page](https://unt.instructure.com/courses/83824/pages/midterm-slash-final-project-instructions-and-guidelines)**. (<https://unt.instructure.com/courses/83824/pages/midterm-slash-final-project-instructions-and-guidelines>)

**Final Exam (100 points) - Mar 10<sup>th</sup>, Friday (5pm - 9pm)**