



## Digital Trends in Industrial Distribution/INDS 3010/501

### Instructor Information

**Bill Morgan** | Clinical Associate Professor  
The University of North Texas | UNT at Frisco  
12995 Preston Rd, Frisco, TX 75034  
Suite 353  
c:940.391.0359  
[Bill.Morgan@unt.edu](mailto:Bill.Morgan@unt.edu)

Office Hours are Monday and Wednesday, 4:00 – 5:00 or by appointment.

### Course Description, Structure, and Objectives

#### Description

Examine the top digital trends attributed to the digital transformation in industrial distribution. Each trend is explained, defined, and simplified. The students will get to know the main component and structure of the trend, learn how to apply it at a professional level, and learn about the leading global market players and providers of technology.

#### Structure

This course introduces industrial design technology with a strong emphasis on digital design tools and fabrication techniques. Students will gain proficiency in digital technology and apply these skills to create 3D models using a fabrication lab. By the end of the course, students will have developed a comprehensive project demonstrating their ability to integrate digital design with physical model construction.

#### Student Learning Outcomes

Students will learn to apply these principles to real-world problems and develop the skills necessary to become strategic designers.

Upon completion of this course, students will be able to:

- SLO #1. Demonstrate an understanding of the evolution of digital technologies.
- SLO #2. Evaluate the underlying technologies that are driving the current digital market.
- SLO #3. Explain the innovative application of existing technologies, resources, and services to industrial distribution.

#### Required/Recommended Materials

There is no required textbook. All required readings will be available through the UNT Library.

#### How to Succeed in this Course

One trait that contributes to success is creating relationships. I am here to mentor you through your academic career and beyond. I welcome the opportunity to meet with you; a scheduled meeting works well for pre-defined items, but impromptu meetings are strongly encouraged. *Connect with me through*



*email and/or by attending office hours.* During busy times, my inbox becomes rather full, so if you contact me and do not receive a response within two business days, please send a follow-up email. A gentle nudge is always appreciated.

The University of North Texas makes reasonable academic accommodations for students with disabilities. Students seeking reasonable accommodation must first register with the Office of Disability Access (ODA) to verify their eligibility. If a disability is verified, the ODA will provide you with a reasonable accommodation letter for faculty to begin a private discussion regarding your specific needs in a course. You may request reasonable accommodations at any time; however, ODA notices of reasonable 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 reasonable accommodation for every semester and must meet with each faculty member before implementation in each class. Students are strongly encouraged to deliver letters of reasonable accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letters during their designated office hours to protect the privacy of the student. For additional information, refer to the [Office of Disability Access](http://www.unt.edu/oda) website (<http://www.unt.edu/oda>). You may also contact ODA at (940) 565-4323.

## Supporting Your Success and Creating an Inclusive Learning Environment

I value the many perspectives students bring to our campus. Please work with me to create a classroom culture of open communication, mutual respect, and inclusion. All discussions should be respectful and civil. Although disagreements and debates are encouraged, personal attacks are unacceptable. Together, we can ensure a safe and welcoming classroom for all. If you ever feel this is not the case, please stop by my office and let me know. We are all learning together. Every student in this class should have the right to learn and engage in an environment of respect and courtesy from others. We will discuss our classroom's habits of engagement, and I also encourage you to review UNT's student code of conduct so that we can all start with the same baseline civility understanding ([Code of Student Conduct](https://deanofstudents.unt.edu/conduct)) (<https://deanofstudents.unt.edu/conduct>)

Week	Main Topic	Assignment / Deliverable	% of Final Grade
	Course Launch &		
1	Framing the Problem	Syllabus Quiz (formative), Initial sketch	Formative (part of 30%)
2	AutoCAD Basics	Drafting Exercise #1 (formative)	Formative (part of 30%)
3	AutoCAD 2D to 3D	Drafting Exercise #2 & #3 (formative)	Formative (part of 30%)
4	AutoCAD 3D	In-class 3D modeling tutorial	–
5	Design for Fabrication	In-class 3D modeling tutorial	–
6	Fabrication Safety & 3D Printing	Fabrication Safety Quiz (formative), AutoCAD Quiz (summative)	Formative (part of 30%) + AutoCAD Quiz 10%
	Autodesk Inventor		
7	Intro	Prototype v1 upload, Peer review	Formative (part of 30%)
8	Midpoint Reviews	Midpoint Presentation (summative)	Midpoint Presentation 10%
9	Studio Work	Lab Build, Update meeting (formative)	Formative (part of 30%)



10	Stakeholder Feedback	Reflection Memo (summative)	Reflection Memo 10%
11	Prototype Revisions	Prototype refinement (lab work)	–
12	Final Build	Document with images & CAD files	Final Prototype & CAD Files 25%
13	Marketing the Artifact	Draft marketing pitch (formative)	Marketing Pitch Video + Poster 10%
14	Presentation Prep	Finalize pitch video & poster	–
15	Thanksgiving Break	–	–
16	Final Presentations	Final Project & Presentation (summative)	Final Presentation 15%

## Assessing Your Work

A = 900-1000

B = 800-899

C = 700-799

D = 600-699

F = 500-599

Assessments are based on five primary criteria:

1. In-Class Participation
2. Digital Proficiency
3. Fabrication lab work
4. Presentations

Grades are based on mastery of the content. As a rule, I do not grade on a “curve” because that is a comparison of your outcomes to others. I do, however, encourage you to find opportunities to learn with and through others. Explore [Navigate’s Study Buddy \(https://navigate.unt.edu\)](https://navigate.unt.edu) tool to join study groups. Maximize your learning with our coaching staff at the Learning Center. Focus on areas where you are struggling in this course by attending scheduled study group sessions with me the week before each exam. Forward together!

**Generative AI Permitted Use:** *In this course, you are encouraged to use Generative AI (GenAI) tools such as [insert tool(s) here, e.g., Claude, ChatGPT, Gemin] to support your learning and develop skills for a GenAI-oriented workforce. This use will help us stay technically proficient and ethically grounded. However, GenAI should complement, not replace, our course materials. If something seems unclear, feel free to ask.*

*I use GenAI to [insert action(s) here, e.g., enhance materials, streamline tasks, generate prompts, create scenarios, draft syllabi, build study guides, analyze performance]. I will always disclose how I use GenAI, and I expect the same from you.*

*In line with the UNT Honor Code, all work you submit must be your own. Using GenAI tools without attribution or relying on them to complete assignments violates academic integrity and will be addressed according to our policy.*



## Course Requirements/Schedule

No Late Work is accepted without prior discussion. You will be notified by Eagle Alert if there is a campus closing that will impact a class and describe that the calendar is subject to change, citing the [Emergency Notifications and Procedures Policy \(PDF\)](https://policy.unt.edu/policy/06-049) (https://policy.unt.edu/policy/06-049). Also describe the standards for academic integrity in the course, citing the [Academic Integrity Policy \(PDF\)](https://policy.unt.edu/policy/06-049) (https://policy.unt.edu/policy/06-049).

## Attendance and Participation

Research has shown that students who attend classes are more likely to be successful. You should attend every class unless you have a university-excused absence such as active military service, a religious holy day, or an official university function, as stated in the [Student Attendance and Authorized Absences Policy \(PDF\)](https://policy.unt.edu/policy/06-039) (https://policy.unt.edu/policy/06-039). Please let me know if you cannot attend a class due to an emergency. Your safety and well-being are important to me.

## Student Support Services & Policies

In addition to standards for success in courses, I feel UNT policies and procedures are professional standards worth integrating into your life. You can access these policies in Navigate (Navigate.unt.edu), in Canvas under the Help menu, in EIS, and on the [Student Support Services & Policies](https://clear.unt.edu/student-support-services-policies) page. I encourage you to read and absorb these important processes.

## UNT Policies

You can access these policies on the [Student Support Services & Policies](https://clear.unt.edu/student-support-services-policies) page (https://clear.unt.edu/student-support-services-policies).