



Construction Math & Drafting
CT102-1
3 Credits
Spring 2022
Cap: 10

Faculty: Tom Bebo **E-mail:** tbebo@navajotech.edu
Office: Rm VE1 Voc Bldg – Carpentry Shop **Office Phone:** 505-387-7398
Office Hours (face-to-face or online): M 10am-12pm, R 1pm-3pm
Preferred Communication (email and/or text; will respond within 24 hours): email or 505-240-0255

Modality (face-to-face, hybrid, or online): face-to-face & hybrid
Class Location and Meeting Times (if face-to-face): Rm VE1 Voc Bldg – Carpentry Shop
Meeting Hours and Online Hours (if hybrid): M 1:00pm-3:30pm

Required Materials:

Textbooks: Pring Reading for Construction 7th Editions

Tools: provided by shop

Laptop and Internet Access: Every student is required to own a laptop and have internet access.

Lab Fee (if applicable):

Mission, Vision, and Philosophy

Mission: Navajo Technical University honors Diné culture and language, while educating for the future.

Vision: Navajo Technical University provides an excellent educational experience in a supportive, culturally diverse environment, enabling all community members to grow intellectually, culturally, and economically.

Philosophy: Through the teachings of Nitsáhákees (thinking), Nahátá (planning), Ína (implementing), and Siihasin (reflection), students acquire quality education in diverse fields, while preserving cultural values and gaining economic opportunities.

Course Description

This course will cover instruction and practice in the use of working drawings and applications from the print to the work.

The math course is based on the construction-specific math skills essential to carpentry and building construction.

Course Outcomes	Course Assessments
------------------------	---------------------------

Describe and use the basic terms and concepts used in construction drawings.	Complete reading assignments, homework assignments, exams/quizzes, & demonstration projects
Identify the purpose and types of drawings in a set of working drawings	
Use mathematical skills to efficiently calculate data from drawings	

Course Activities

Week	Date	Class Topics/Reading Due	Assignments Due	Assessments
	1/17	Martin Luther King Day		
	1/21	Last day to add/drop		
	1/24	Sec2 Common Fractions – Prac Mth Carp	TBD	
	1/31	Sec5 Measurement: direct&computed– Prac Mth Carp	TBD	
	2/7	Sec 7 Combined operations applied to building construction– Prac Mth Carp	TBD	
	2/14	Sec 7 Combined operations applied to building construction– Prac Mth Carp	TBD	
	2/21	President's Day		
	2/25	Graduation Petition due	TBD	
	2/28	Sec 7 Combined operations applied to building construction– Prac Mth Carp	TBD	
	3/7	Mid term exam	Midterm	
	3/10	Midterm grades due		
	3/14	Spring Break		
	3/21	Print Reading for	TBD	
	3/28			
	3/31	Last day to withdraw with "W"		
	4/4	Print Reading for Construction	TBD	
	4/11	Print Reading for Construction	TBD	
	4/18	Print Reading for Construction	TBD	
	4/25	Print Reading for Construction	TBD	
	5/2	Print Reading for Construction	TBD	
	5/9	Final exam	Finals	
	5/12	Grades due to the Registrar		
	5/13	Graduation		

Grading Plan

- 25% Participation
- 25% Job Readiness: safety, work-habit, & professional courtesy(call in or no call)
- 25% Assignments (homework& projects)

25% Exam/quizzes

90-100 = A

80-89 = B

70-79 = C

60-69 = D

0-59 = F

- **DAILY ATTENDANCE IS REQUIRED**
- **TARDINESS WILL NOT BE TOLERATED**
- **Don't bother showing up after 1:30pm unless you call instructor**
- ***3 no call/no shows will result in a drop from class***
- **Make-up work will be at discretion of instructor**
- **All assignments will be turned in at due date**
- ***Safety will be emphasized in lab projects & all instructions***
- ***Proper Personal Protection Equipment (PPE): workboots, safety glasses(Z-87), hard hat, and safety vest required***

Grading Policy

Students must do their own work. Cheating and plagiarism are strictly forbidden. Cheating includes (but is not limited to) plagiarism, submission of work that is not one's own, submission or use of falsified data, unauthorized access to exams or assignments, use of unauthorized material during an exam, or supplying or communicating unauthorized information for assignments or exams.

Participation

Students are expected to attend and participate in all class activities. Points will be given to students who actively participate in class activities including guest speakers, field trips, laboratories, and all other classroom events.

Cell phone and headphone use

Please turn cell phones off **before** coming to class. Cell phone courtesy is essential to quality classroom learning. Headphones must be removed before coming to class.

Attendance Policy

Students are expected to attend all class sessions. If more than ten minutes late, students will be counted as absent. A percentage of the student's grade will be based on class attendance and participation. Absence from class, regardless of the reason, does not relieve the student of responsibility to complete all course work by required deadlines. Furthermore, it is the student's responsibility to obtain notes, handouts, and any other information covered when absent from class and to arrange to make up any in-class assignments or tests if permitted by the instructor. Incomplete or missing assignments will necessarily affect the student's grades. Instructors will report excessive and/or unexplained absences to the Counseling Department for investigation and potential intervention. **Instructors may drop students from the class after three (3) absences unless prior arrangements are made with the instructor to make up work and the instructor deems any excuse acceptable.**

Study Time Outside of Class for Face-to-Face Courses

For every credit hour in class, a student is expected to spend two hours outside of class studying course materials.

Study Time for Hybrid or Blended Courses

For a hybrid or blended course of one credit hour, a student is expected to spend three hours per week studying course materials.

Study Time for Online Courses

For an online course of one credit hour, a student is expected to spend four hours per week studying course materials.

Academic Integrity

Integrity (honesty) is expected of every student in all academic work. The guiding principle of academic integrity is that a student's submitted work must be the student's own. Students who engage in academic dishonesty diminish their education and bring discredit to the University community. Avoid situations likely to compromise academic integrity such as: cheating, facilitating academic dishonesty, and plagiarism; modifying academic work to obtain additional credit in the same class unless approved in advance by the instructor, failure to observe rules of academic integrity established by the instructor. **The use of another person's ideas or work claimed as your own without acknowledging the original source is known as plagiarism and is prohibited.**

Diné Philosophy of Education

The Diné Philosophy of Education (DPE) is incorporated into every class for students to become aware of and to understand the significance of the four Diné philosophical elements, including its affiliation with the four directions, four sacred mountains, the four set of thought processes and so forth: Nitsáhákees, Nahát'á, Íina and Siih Hasin which are essential and relevant to self-identity, respect and wisdom to achieve career goals successfully.

At NTU's Zuni Campus, the A:shiwí Philosophy of Education offers essential elements for helping students develop Indigenous and Western understandings. Yam de bena: dap haydoshna: akkya hon detsemak a:wannikwa da: hon de:tsemak a:ts'umme. *Our language and ceremonies allow our people to maintain strength and knowledge.* A:shiwí core values of hon i:yyułashik'yanna:wa (respect), hon delank'oha:willa:wa (kindness and empathy), hon i:yyayumola:wa (honesty and trustworthiness), and hon kohol lewuna:wediyahnan, wan hon kela i:tsemanna (think critically) are central to attaining strength and knowledge. They help learners develop positive self-identity, respect, kindness, and critical thinking skills to achieve life goals successfully.

Students with Disabilities

Navajo Technical University is committed to serving all students in a non-discriminatory and accommodating manner. Any student who feels that she or he may need special accommodations should contact the Accommodations Office (<http://www.navajotech.edu/student-services#accommodations-services>) in accordance with the university's Disability Accommodations Policy (see [http://www.navajotech.edu/images/about/policiesDocs/Disability Exhibit-A_6-26-2018.pdf](http://www.navajotech.edu/images/about/policiesDocs/Disability_ Exhibit-A_6-26-2018.pdf)).

Email Address

Students are required to use NTU's email address for all communications with faculty and staff.

Final Exam Date: December 13, 2021