



Navajo Technical College

<http://navajotech.edu>

P.O. Box 849, Crownpoint, NM
87313-0849

Telephone: (505)
387-7401

FAX: (505) 786-
5644

IE 473- Inventory Control

3 Credits
Spring 2021

Instructor: Monsuru Ramoni
Office Location: Tech Building 322

Email: mramoni@navajotech.edu
Office Phone: (505) 387 -7440

Class Location: Tech Building 322
Meeting Times: Tuesdays & Thursdays 2:00 – 3:20 PM
Face-to Face Teaching: Tuesdays and Thursdays 2:00 – 3.20PM

Required Materials:

Text: Supply Chain Focused Manufacturing Planning and Control by W.C. Benton, Jr. 1st Ed ISBN 13: 978-1-133-58671-5

Tools: Jump drive & access to Excel.

Lab Fee: None

Note: NTU requires every student to have a laptop. Students who don't have laptops, the cost of the laptops will be deducted from their Pell grant and then NTU will purchase laptops for them.

Course Description:

In this course, manufacturing support systems, aggregate planning, material requirement planning, capacity management are discussed. Different approaches to the planning of material and capacity as well as the differences between push and pull systems and Theory of Constraints will be explored.

Course Objectives:

- 1) Students will be able to understand forecasting systems and methods.
- 2) Students will understand operation schedules.

2/8/2022

Page 1 of 5

- 3) Students will understand the broad context of inventory control and effect on markets.
- 4) Students will understand EOQ, Order Point Systems, Safety and Buffer stocks.
- 5) Students will be introduced to supply chain management theory.
- 6) Students will understand production schedules and scheduling.
- 7) Students will understand pull systems & JIT.
- 8) Students will understand MRP, Push and CONWIP systems.

COURSE OUTCOMES	COURSE MEASUREMENTS
The student will be able to use tools to create analysis of data based on data gathered or provided.	Assessment will be by problems presented in homework, quizzes & tests.
Students will be able to create forecasts & complete MRP charts based on data.	Assessment will be by problems presented in homework, quizzes & tests.
Students will be able to distinguish between different inventory management systems and their uses.	Assessment will be by problems presented in homework, quizzes & tests.
Students will be able to use capacity planning for projects.	Assessment will be by problems presented in homework & project
Students will be able to calculate EOQ, Order Point, Safety and Buffer stock.	Assessment will be by problems presented in homework, quizzes & tests.

Grading Plan:

Homework	30%
Mid term	20%
Attendance & participation	5 %
Quizzes	10 %
Final	20%
Project	15%
Total	100%
Portfolio (Extra Credit)	+%

(A) 90-100; (B) 80-89; (C) 70-79; (D) 60-69; (F) 0-59

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#accomodations-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).

Email Address

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

Final Exam Date: