

**Penn State Harrisburg
School of Business Administration**

SCM 445: Supply Chain Management (3cr.)

Instructor : Piyal Sarkar, Ph.D.

Class Hours : Mo We 2:30- 3:45 P.M

Location: Olmsted E330

Office : E335-M Olmsted

Office Hours : M & W 11:00 A.M - 12:30 P.M or By Appointment

Telephone : 717-948-6643 **Email:** pbs5628@psu.edu (Preferred)

Department : E355 Olmsted **Phone:** 717-948-6343 **Fax:** 717-948-6456

Text : Manufacturing planning & control for supply chain management
& Handfield. ISBN-13: 9780073377827. Mc Graw-Hill.

Prerequisites : SCM 301

Course Mission

Welcome to Supply Chain Management 445! This course takes a detailed look at how firms manage production and inventory. Knowing how much to order (or produce), when to order (or produce), and where to put everything are critical skills for supply chain managers. The knowledge you gain from this course will make you a valuable hiring prospect for many firms. The aim is to (1) discuss the problems and issues confronting operations managers, (2) provide you with language, concepts, insights and tools to identify, analyze and solve operations problems as they occur across the organization, and (3) demonstrate computer based analytical techniques. We will use a combination of theory, simulations, numerical examples, and practical applications to reinforce above concepts and tools.

Learning Outcomes

When you will successfully complete this course, YOU will:

- Discuss the role and importance of the operations management in organizations (manufacturing as well as service organizations).
- Apply linear programming, an optimization technique, to production, marketing and financial problems.
- Recognize and apply basic appropriate analytical techniques related to decision making in the areas such as project management, decision tree approach, and forecasting.
- Compare inventory management models and apply appropriate models to given situations.
- Recognize and analyze the importance of supply chain management to an organization in global business.

Teaching Philosophy

The course is designed to make learning an enjoyable experience. We will look at real world supply chain cases to assimilate the intricacies of managing a supply chain. To achieve this, I intend to deviate from the largely understood traditional means of learning i.e., prolonged lecturing which does little more than providing information. Instead, I plan to have an interesting mix of learning strategies comprising of Application Exercises (APEXs), i.e., class exercises, Case Studies, Short Videos, Home Assignments and

of course some lecturing. The objective is to provide you an opportunity to become more actively involved in the learning process. However, you must accept responsibility for your learning and complete all the in-class and after-class activities sincerely and on time. I encourage you to participate in the class activities and discussions, as also interact with your peers outside the class. Feel free to visit me in my office* or wherever we meet on campus to discuss your queries.

Grading & Examination Policy

There will be one mid-term examination and one final examination. A typical exam may include a mix of objective (multiple choice and T/F), and subjective (computational) questions, based on the material presented in the class, RATs and assignments. The point's breakdown for determining final grades is as follows:

Exam- 40%	Project - 20%
	Class Participation- 10%

Assignments (includes excel & SAP) - 30% (*Penalty for late submissions @ 10 points per day unless prior arrangements are made with the instructor*). You are expected to look up for HWs, which will be posted on [Canvas](#) (the course management system) under [Modules](#).

Class Participation (10%): A portion of the grade for this course is directly tied to your participation in this class. Successful participation is defined as consistently adhering to University requirements, as presented in this syllabus. It also includes engaging in group or other activities during class that solicit your feedback on the readings or material in the lecture. Class participation, which presupposes attendance, also includes your involvement in the class discussions (more specifically the quality of your observations and inputs in leading a class discussion), your performance in APEXs and Case Studies, if any.

Letter Grade	A	A-	B+	B	B-	C+	C	D	F
Percentage	>=93	90-92	87-89	83-86	80-82	77-79	70-76	60-69	<60

Attendance

You are strongly encouraged to attend every class. A large portion of the learning in this course will come from in-class discussions, and APEXs (class exercises); hence, a missed class is a missed opportunity to participate in class and to learn from your peers. In the event that you must miss a class, it is your responsibility to obtain a copy of any materials distributed during your absence and to find out what you may have missed, including homework's.

Academic Integrity

Academic dishonesty is not limited to simply cheating on an exam or assignment. The following is quoted directly from the "PSU Faculty Senate Policies for Students" regarding academic integrity and academic dishonesty: "Academic integrity is the pursuit of scholarly activity free from fraud and deception and is an educational objective of this institution. Academic dishonesty includes, but is not limited to, cheating, plagiarizing, fabricating of information or citations, facilitating acts of academic dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students."

All University and Penn State Harrisburg policies regarding academic integrity/academic dishonesty apply to this course and the students enrolled in this course. Refer to the following URL for further details on the [academic integrity policy of Penn State Harrisburg](#): <http://harrisburg.psu.edu/academics/academic-guidelines-and-policies>. Each student in this course is

expected to work entirely on her/his own while taking any exam, to complete assignments on her/his own effort without the assistance of others unless directed otherwise by the instructor, and to abide by University and Penn State Harrisburg policies about academic integrity and academic dishonesty. Academic dishonesty can result in assignment of "F" or "XF" as the final grade for the student. I plan to use Turnitin (<http://turnitin.psu.edu/>), a plagiarism detection tool.

Disability Access

Penn State welcomes students with disabilities into the University's educational programs. Penn State values diversity and inclusion; we are committed to a climate of mutual respect and full participation. Our goal is to create learning environments that are usable, equitable, inclusive, and welcoming. Every Penn State campus has a Student DisAbility Resources office. Student DisAbility Resources at Penn State Harrisburg is located in SEC 205. Student Disability Resources can be contacted via email at hbgsdr@psu.edu or by phone at 717-948-6025.

To receive consideration for accommodations, you must contact Student DisAbility Resources (SDR), participate in an intake interview, provide documentation of your disability, and complete an online Introductory Questionnaire . Additional information is available on the [Disability Services website](http://harrisburg.psu.edu/disability-services) (<http://harrisburg.psu.edu/disability-services>). If the documentation supports requests for reasonable accommodations, SDR will provide you with an accommodations letter, which you will give to your professors. You will receive accommodations after you give your accommodations letters to your professors. You should share your accommodations letters with your professors as early in the semester as possible. Professors do not provide accommodations retroactively.

Counseling & Psychological Services

Success in college depends heavily on your personal health and wellbeing. Please recognize that some stress and anxiety is a normal part of life and the college experience, and it can be compounded by unexpected setbacks or life changes outside the classroom. Penn State Harrisburg has a number of support options listed in this syllabus.

If you are experiencing issues that feel unmanageable, you reach the point that you have difficulty concentrating and/or feeling motivated, or have anxiety or feelings of depression that interfere with your ability to function, you may want to consider talking with someone in CAPS (Counseling and Psychological Services). We have a range of services to help you navigate issues that are impacting your ability to be healthy, well, and productive.

You can learn more about the confidential mental health services available on campus by visiting <https://harrisburg.psu.edu/counseling-psychological-services> or by calling [\(717\) 948-6025](tel:(717)948-6025). CAPS is located on the 2nd floor of the Student Enrichment Center, Suite 205.

You can access crisis services 24/7/365 by calling 1-877-229-6400 or by texting "LIONS" to 741741
Find us on Instagram @pshhbg_caps_sdr or on Facebook @psuhbgcounselinganddisabilityservices

Course Schedule

Course Schedule

Week/Date	Topics
Week 1 13-Jan-24	Logistics Chapters 10A
Week 2 20- Jan-24	Inventory control Chapter 11
Week 3 27-Jan-24	Inventory control 2 (Canvas materials)
Week 4 3-Feb-24	Manufacturing planning & control ERP systems 1& 1a
Week 5 10-Feb-24	Demand management (Chapter 2)
Week 6 17-Feb-24	Forecasting (Chapter 3)
Week 7 24-Feb-24	Forecasting 2 (Canvas materials)
Week 8 3- March-24	Sales & Operational Plan (Chapter 4& 4a)
Week 9 <u>17-Mar-24</u>	Sales & Operational plan 2
Week 10 <u>24 Mar 24</u>	Master Production schedule
Week 11 31-Mar-24	Materials requirement planning
Week 12 7-April-24	Production control/Just in Time
Week 13 14- April- 24	Distribution Requirements planning
Week 14 21-April-24	MPC strategy
	Wrap up & Review
Final week	Exam & Project presentation

*Please note that the course schedule is tentative, and minor changes, based on instructor's discretion, are possible.

*I may assign additional reading materials such as recent news reports and trade magazine articles as the semester progresses.

Educational Equity

Penn State takes great pride to foster a diverse and inclusive environment for students, faculty, and staff. Acts of intolerance, discrimination, harassment, and/or incivility due to age, ancestry, color, disability, gender, national origin, race, religious belief, sexual orientation, or veteran status are not tolerated and can be reported through Educational Equity at the Report Bias site: <http://equity.psu.edu/reportbias/statement>. Penn State's Code of Conduct can be found at the following link <https://studentaffairs.psu.edu/support-safety-conduct/student-conduct/code-conduct>.

Direct all inquiries regarding the nondiscrimination policy to The Office of Diversity, Equity, and Inclusion at Penn State Harrisburg at 717-948-6016, and to Student Diversity, Equity, and Inclusion at 717-948-4381 or in person in Olmsted E125.

Mandated Reporting

Penn State is committed to equal access to programs, facilities, admission, and employment for all persons. It is the policy of the University to maintain an environment free of harassment and free of discrimination against any person because of age, race, color, ancestry, national origin, religion, creed, service in the uniformed services (as defined in state and federal law), veteran status, sex, sexual orientation, marital or family status, pregnancy, pregnancy-related conditions, or physical or mental disability, gender, perceived gender, gender identity, gender expression, genetic information or political ideas. Discriminatory conduct and harassment, as well as sexual misconduct and relationship violence, violates the dignity of individuals, impedes the realization of the University's educational mission, and will not be tolerated. Gender-based and sexual harassment, including sexual violence, are forms of gender discrimination in that they deny or limit an individual's ability to participate in or benefit from University programs or activities. For reporting resources, and support, please visit titleix.psu.edu.

Penn State strongly encourages all members of the campus community to take appropriate action by providing support and encouraging those impacted by such incidents to submit a report to the Equity & Compliance Specialist / Sexual Misconduct Resource Person, Nicholas Paesano (information below). You may also submit a report online by using the Incident Report Form found here: Office of Sexual Misconduct Prevention & Response Incident Report Form. If the University Title IX staff receives information about an incident, they will reach out to offer information about resources, rights, and procedural options available to you.

At Penn State Harrisburg, your point of contact is:

Nicholas Paesano – Equity & Compliance Specialist/Sexual Misconduct Resource Person
Penn State Harrisburg
E125 Olmsted Building
717-948-4381
nbp5382@psu.edu

Penn State's Interim Title IX Coordinator is:

Suzanne Adair, Interim Title IX Coordinator
222 Boucke Building
University Park, PA 16802
814-867-0099
titleix@psu.edu

Campus Closing

In the event of a campus closing, delay or cancellation of classes, Canvas will be used to facilitate class sessions online. Please refer Penn State Harrisburg's home page (<https://harrisburg.psu.edu/>) and make sure that you are signed up for text alerts.

The Russell E. Horn Learning Center:

The Russell E. Horn Sr. Learning Center may have a tutor who can assist you with this course. An appointment is recommended. Appointments are available in-person or on Zoom, depending on your preference.

To make an appointment:

Visit: Student Enrichment Center Room 201

Or go to: starfish.psu.edu and click on “My Success Network”

Or call: 717-948-6475

Or email: PSHLearningCtr@psu.edu

The Learning Center can help you in a variety of ways:

Academic Success Coaches

Get help with time management, organization, test-taking, study skills, as well as speech and presentation preparation and delivery.

Subject Area Tutoring

Courses including accounting, biological and behavioral science, computer science, economics, finance, mathematics, physical sciences, statistics, engineering, and some world languages are supported by peer and professional tutoring.

Writing

Get help with the development of essays, papers, resumes, cover letters, scholarship applications and much more. We can help at any stage from brainstorming ideas to citing sources to polishing your final product.

The Lambert Undergraduate Advising Center can assist you with exploring majors and minors, understanding academic policies, and planning courses for future semesters.

Drop-in Quick Question Advising is available during the semester both in-person and online (no appointment necessary!). See dates, times, and locations at: bit.ly/whatsnexthbg

To contact the Advising Center:

Visit: Student Enrichment Center Room 204

Or call: 717-948-6604

Or email: HBGAdvisingCenter@psu.edu

Madlyn L. Hanes Library

Library Guides: Access curated resources such as databases, books, and journals relevant to your course and areas of study. Browse by topic (subject guides) or by campus and course number (course guides): <https://libraries.psu.edu/guides>.

Citation guides: <https://guides.libraries.psu.edu/CitationStyles>