Supply Chain Management Technology

Dept of Technology Leadership & Innovation/Purdue Polytechnic Institute

PITLI-IET-BS / Major: TSCM 201710
120 Credits for graduation

Major Required Courses (75 credits)

_____	(3)	TLI 11100 Introduction to Manufacturing and Supply Chain Systems *or IT 10400 Industrial Organization*
_____	(3)	TLI 11200 Foundations of Organizational Leadership *or OLS 25200 Human Behaviors in Organizations*
_____	(3)	TLI 21300 Project Management *or TECH 32000 Technology and the Organization*
_____	(3)	TLI 21400 Introduction to Supply Chain Management Technology *or IT 23000 Industrial Supply Chain Management*
_____	(3)	TLI 31300 Technology Innovation & Integration: Bar Codes to Biometrics *or IT 34500 Auto Identification & Data Capstone*
_____	(3)	TLI 31400 Leading Innovation in Organizations
_____	(3)	TLI 31500 New Product Development or TLI 36700 Design & Innovation I
_____	(3)	TLI 31600 Statistical Quality Control *or IT 34200 Intro to Statistical Quality*
_____	(3)	TLI 41400 Financial Analysis for Technology Systems *or IT 43200 Financial Transaction in Distribution*
_____	(3)	TLI 23500 Introduction to Lean & Sustainable System *or IT 21400 Intro to Lean Manufacturing*
_____	(3)	TLI 34200 Warehouse & Inventory Management *or IT 33200 Purchasing, Inventory and Warehouse Management*
_____	(3)	TLI 34250 Purchasing & Contract Management
_____	(3)	TLI 34300 Technical & Service Selling *or IT 33000 Industrial Sales and Sales Management*
_____	(3)	TLI 34350 Business to Business Sales Management
_____	(3)	TLI 43530 Operations Planning & Management *or IT 44200 Production Planning*
_____	(3)	TLI 43640 Lean Six Sigma *or IT 44600 Six Sigma Quality*
_____	(3)	TLI 44275 Global Transportation & Logistics Management *or IT 43400 Global Transportation and Logistics Management*
_____	(3)	MET 14300 Materials & Processes I or MET 14400 Materials & Processes II
_____	(3)	MGMT 20010 Business Accounting *or MGMT 20000 Introductory Accounting*
_____	(3)	MGMT 32300 Principles of Marketing
_____	(3)	TLI 48490 SCMT Capstone I: Strategic Planning
_____	(3)	TLI 48495 SCMT Capstone II: Strategic Analytics
_____	(0)	Globalization Experience[10] (See Supplemental Information)
_____	(0)	Internship Experience[11] (See Supplemental Information)

Technical Electives[10] (See Supplemental Information)

_____ (TE) _____ _____ (TE) _____ _____ (TE) _____

Other Departmental Courses (36 credits)

_____	(3)	COM 11400 Fundamentals of Speech Communication *(satisfies Oral Communication for core)*
_____	(3)	MA 15555 Quantitative Reasoning or MA 15800 Precalculus *(satisfies Quantitative Reasoning for core)*
_____	(3)	PSY 12000 Elementary Psychology or SOC 10000 Introductory Sociology *(satisfies Human Cultures Behavioral/Social Science for core)*
_____	(3)	TECH 12000 Design Thinking in Technology *(satisfies Science, Technology & Society and Information Literacy for core)*
_____	(3)	Humanities Selective[1] *(satisfies Human Cultures Humanities for core)* (See Supplemental Information)
_____	(3)	Science Selective[3] *(satisfies Science for core)* (See Supplemental Information)
_____	(3)	Lab Science Selective[2] *(satisfies Science for core)* (See Supplemental Information)
_____	(3)	Written Communication Selective[4] *(satisfies Written Communication for core)* (See Supplemental Information)
_____	(3)	ECON 21000 Principles of Economics or AGEC 21700 Economics or ECON 25100 Microeconomics or ECON 25200 Macroeconomics
_____	(3)	Mathematics/Statistics Selective[5] (See Supplemental Information)
_____	(3)	History of Science and Technology Selective[6] (See Supplemental Information)
_____	(3)	Advanced Communication Selective[7] (See Supplemental Information)

Electives[9] (9 credits) (See Supplemental Information)

_____ (3) _____ _____ (3) _____ _____ (3) _____

University Core Requirements (http://www.purdue.edu/provost/initiatives/curriculum/course.html)

Human Cultures Humanities	☐	*Science, Technology & Society Selective*	☐ **TECH 12000**
Human Cultures Behavioral/Social Science	☐ **PSY 12000/SOC 10000**	*Written Communication*	☐ **ENGL 10600/10800**
Information Literacy	☐ **TECH 12000**	*Oral Communication*	☐ **COM 11400**
Science Selective	☐	*Quantitative Reasoning*	☐ **MA 15800/15555**
Science Selective	☐		

The student is ultimately responsible for knowing and completing all degree requirements.
myPurdue Plan is knowledge source for specific requirements and completion

4/1/2016 (effective Fall 2016)

Supply Chain Management Technology

Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
3	TLI 11100 Intro to Manufacturing & Supply Chain Systems		3	TLI 11200 Foundation of Org Leadership	
3	MA 15555 Quantitative Reasoning or MA 15800 Precalculus*		3	TLI 21400 Into to Supply Chain MGMT Tech	
3	TECH 12000 Design Thinking in Technology *		3	PSY 12000 Elementary Psychology or SOC 10000 Intro Sociology*	
3	COM 11400 Fundamentals of Speech Communication *		3/4	Written Communication Selective*[4]	
3	Humanities Selective*[1]		3	Lab Science Selective*[2]	
15			**15/16**		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
3	TLI 21300 Project Management		3	ECON 21000 Principles of Economics	
3	TLI 23500 Intro to Lean & Sustainable Systems		3	MGMT 20010 Business Accounting	
3	MET 14300 or MET 14400 Materials & Processes I or II		3	History of Science and Tech Selective[6]	
3	Science Selective*[3]		3	Elective[8]	
3	Mathematics/Statistics Selective[5]		3	Technical Elective[9]	
15			**15**		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	TLI 31300 Tech Innovation: Biometrics		3	TLI 31500 New Product Dev or TLI 36700 Design & Innovation I	TLI 11200 for TLI 31500
3	TLI 31400 Leading Innovation in Org		3	TLI 34200 Warehouse & Inventory Management	
3	TLI 31600 Statistical Quality Control	Math/Stat selective	3	TLI 34250 Purchasing & Contract MGMT	TLI 21400 min 'C'
3	MGMT 32300 Principles of Marketing		3	TLI 34300 Technical & Service Selling	
3	Advanced Communication Selective[7]		3	TLI 43530 Operations Management	Math/Stat selective
15			**15**		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	TLI 41400 Financial Analysis for Technology Systems	TLI 33400 min 'C' or MGMT 20010 min 'C'	3	TLI 48495 SCMT Capstone II	TLI 48490 min 'C'
3	TLI 34350 B2B Sales Management	TLI 34300 min 'C'	3	Technical Elective[9]	
3	TLI 43640 Lean Six Sigma	TLI 31600	3	Technical Elective[9]	
3	TLI 44275 Global Transportation & Logistics Management	TLI 34200 min 'C'	3	Elective[8]	
3	TLI 48490 SCMT Capstone I	TLI 41400 min 'C'	3	Elective[8]	
0	Internship Experience[11]		0	Globalization Experience[10]	
15			**15**		

*Fulfills University Core
1) 120 credits listed above are required for the TSCM Bachelor of Science degree.
2) 2.0 Graduation GPA required for Bachelor of Science degree.
3) 32 credits of upper division courses (30000 level or higher) must be taken at Purdue University, West Lafayette.
4) ANY COURSE TAKEN AT PURDUE CAN BE ATTEMPTED NO MORE THAN THREE TIMES (INCLUSIVE OF W, WF, I AND IF).

See next page for all supplemental Information

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The student is ultimately responsible for knowing and completing all degree requirements.
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TSCM Supplemental Information
All prerequisites must be met

[1]Humanities Selective (3 credits)
See approved Humanities list at: http://www.purdue.edu/provost/initiatives/curriculum/course.html

[2]Lab Science Selective (3 credits)
Must be a lab from the approved UCC Science list: http://www.purdue.edu/provost/initiatives/curriculum/course.html

ASTR 26300 Descriptive Astronomy: The Solar System	BIOL 20300 Human Anatomy and Physiology	EAPS 11100 Physical Geology
ASTR 26400 Descriptive Astronomy: Stars and Galaxies	BIOL 20400 Human Anatomy and Physiology	EAPS 11200 Earth through Time
BIOL 11000 Fundamentals of Biology I	BTNY 11000 Intro to Plant Science	EAPS 24300 Earth Materials I
BIOL 11100 Fundamentals of Biology II	CHM 11100 General Chemistry	EAPS 24400 Earth Materials II
BIOL 12100 Biology I: Ecology, Diversity, & Behavior	CHM 11200 General Chemistry	HORT 10100 Fundamentals of Horticulture
BIOL 13100 Biology II: Dev, Structure & Function of Organisms	CHM 11500 General Chemistry	PHYS 17200 Modern Mechanics
	CHM 11600 General Chemistry	PHYS 21800 General Physics I
	CHM 12500 Introduction to Chemistry	PHYS 21900 General Physics II
BIOL 13500 First year Biology lab	CHM 12600 Introduction to Chemistry II	PHYS 22000 General Physics
BIOL 14600 Introduction to Biology	CHM 13600 General Chemistry Honors	PHYS 22100 General Physics
	CHM 20000 Fund of Chemistry	PHYS 24100 Electricity & Optics
	EAPS 10900 The Dynamic Earth	PHYS 27200 Electric & Magnetic Interactions

[3]Science Selective (3 credits)
Must be a class from the approved UCC Science list: http://www.purdue.edu/provost/initiatives/curriculum/course.html

[4]Written Communication Selective (minimum 3 credits)

ENGL 10600 First-Year Composition	ENGL 10800 Accelerated First-Year Composition

[5]Mathematics/Statistics Selective (3 credits)

MA 16010 Applied Calculus I	MA 16500 Analytic Geometry & Calculus I	*STAT 30100 Elementary Statistics Methods
MA 16100 Plane Analytic Geometry & Calculus I	MA 16600 Analytic Geometry & Calculus II	*(recommended)*
MA 16200 Plane Analytic Geometry & Calculus II	STAT 22500 Intro Probability Models	

[6]History of Science and Technology Selective (3 credits)

HIST 15200 US Since 1877	HIST 35000 Science and Technology in the Twentieth Century World	HIST 49400 Science and Technology in American Civilization
HIST 33300 Science and Technology in Western Civilization I	HIST 38001 History of United States Agriculture	
HIST 33400 Science and Technology in Western Civilization II	HIST 38400 History of Aviation	
	HIST 38700 History of the Space Age	

[7]Advanced Communication Selective (3 credits)

COM 31400 Advanced Presentational Speaking	COM 32400 Intro to Organizational Communication	ENGL 30600 Intro Professional Writing
COM 31500 Speech Communication of Technical Information	COM 32500 Interviewing Principles and Practice	ENGL 42000 Business Writing
COM 31800 Principles of Persuasion	COM 41500 Discussion of Technical Problems	ENGL 42100 Technical Writing
COM 32000 Small Group Communication	ENGL 30400 Advanced Composition	

[8]Electives (9 credits)
Any non-remedial course offered for credit at the University not already required/being used on the plan of study

[9]Technical Elective (9 credits)
Any non-required Purdue Polytechnic or Engineering (ENGR) course not already required on the plan of study

[10]Globalization Experience (0 credits)
Choose one of the four options below and then submit the required Globalization Reflection paper about your choice.
1. Complete a Purdue Approved Study Abroad experience
2. Complete an International Internship or Co-op
3. Complete three of the four PUPIL Badges listed below (http://www.purdue.edu/cie/learning/global/pupil.html)
    a. Intercultural Openness
    b. Cultural Self-Awareness
    c. Cultural Worldview
    d. Intercultural Empathy
4. Complete six credits from the following courses:

OLS 45600 Leadership in a Global Environment	AGEC 25000 Economics Geography of World Food	COM 22400 Communicating in a Global Workplace
TLI 35600 Global Technology Leadership	AGEC 34000 International Economic Development (pre-req AGEC 217/ECON 210)	EPICS – Global Design Teams
TECH 33000 Technology & the Global Society	ANTH 34000 Global Perspectives on Health	HIST 33400 Sci & Tech in West Civilization II
	COM 30300 Intercultural Communication	POL 13000 Intro to International Relations
		POL 23100 Intro to US Foreign Policy

POL 23500 Rich and Poor Nations
POL 23700 Modern Weapons & International Relations
POL 32700 Green Global Politics

POL 34500 West European Democracies in the Post-Industrial Era
SOC 33800 Global Social Movements

SOC 33900 Introduction to Sociology of Developing Nations
Any foreign language 200 or higher (201, 202, 301, 302, 401, 402)

[11]**Internship Experience (0 credits)**
Students will complete the TSCM Internship Experience Badge, please see your academic advisor for further details.