



Applied Innovation Hub 214 • 860-832-1830

I.D.#

CATALOG TERM: ☐ FALL ☐ SPRING YEAR:

ANT. COMPLETION TERM: ☐ FALL ☐ WINTER ☐ SPRING ☐ SUMMER YEAR: _____

General Education (42-53 credits)		
Study Area I - Arts and Humanities (9)		
	200-Level Literature Course	3
	Arts/Humanities Elective	3
	Arts/Humanities Elective	3
Study Area II - Social Sciences (9)		
	S.A. II History Course	3
	ECON 201	3
	Social Sciences Elective	3
Study Area III - Behavioral Sciences (3)		
	PSY 112	3
	TM 190 (double-counted in major Core Requirements)	-
Study Area IV - Natural Sciences (7-8)		
	PHYS 111, 121, OR 125	3 or 4
	CHEM 161 AND CHEM 162	4
Skill Area I - Communication Skills (6)		
	WRT 105 OR WRT 110 (per placement exam)	3
	ENGR 290 (prereq: WRT 110)	3
Skill Area II - Mathematics (6)		
	STAT 200 (prereq: MATH 101, 102, OR 103 (C- OR BETTER))	3
	MATH 123 Applied Business Math (prereq: MATH 101, 102, OR 103 (C- OR BETTER))	3
Skill Area III - Foreign Language (0-9)		
	Level-3 high school foreign language	0
	CLEP foreign language exam	3 - 9
	111-level Foreign Language Course	3 or 6
	112-level Foreign Language Course (prereq: 111-level or placement exam)	
	Demonstrated native proficiency in a language other than English	0
Skill Area IV - Univ. Requirement (2-3)		
	PE 144 or Skill Area 4 elective*	2 or 3

*must take PE 144 if entering CCSU with fewer than 15 credits

Major Requirements				
Core Requirements (48 credits)				
	CS 113	Intro to Computer Programming	3	
	TM 120	Intro to Technology Mgt {FA}	3	
	MM 121 or ROBO 220	Mechanical CAD or Parametric Modeling & Simulation	3	
	TM 190	Global Quality Mgmt Systems	3	
	MM 216	Manufacturing Processes (prereq: TM 120 AND MATH 101 or Higher)	3	
	AC 210	Accounting for Decision-Making	3	
	MGT 295	Fundamentals of Management (prereq: WRT 110 or WRT 202 or HON 140)	3	
	TM 310	Environment, Health & Safety {SP}	3	
	TM 360	Production Systems {SP}	3	
	TM 362	Leading Project Teams	3	
	TM 366	Supply Chain & Purchasing	3	
	TM 390	Lean Operations Management {FA}	3	
	TM 401	Senior Seminar and Internship (prereq: 75 credits)	3	
	TM 426	Applied Metrology {FA} (prereq: MM 121, ROBO 220, OR ETM 260)	3	
	TM 463	Logistics Management {FA} (prereq: TM 366)	3	
	TM 464	Six Sigma Quality (prereq: STAT 200 OR STAT 104)	3	
NOTE: {SP}, {FA}, {SU} = offered every Spring, Fall, or Summer semester only. {SP-E}, {FA-E}, {SP-O}, {FA-O} = offered every 2 years: Spring or Fall semester, Odd or Even years				
Six credit designated "International"				
Directed Technology Electives - Choose 12 Credits of Any Courses Below				
Advanced Manufacturing Courses				
	MM 226	Principles of CNC {FA} (Prereq: [ME 216 OR MM 216] AND [MM 121 OR ROBO 220 OR ETM 260])	3	
	MM 236	Tool Design Prereq: MM 121 OR ROBO 220 OR ETM 260	3	
	MM 324	Fluid Power Systems {SU}	3	
	TM 436	Advanced Applied Metrology		
	TM 490	Advanced Six Sigma {SP} (Prereq: TM 464)	3	
Environment, Health & Safety Courses				
	CM 335	Construction Safety	3	
	TM 411	Industrial Hygiene {FA-E}	3	
	TM 412	Training Methods for EH&S {SP-E}	3	
	TM 414	Accident Investigation {FA-O}	3	
	TM 456	Hazardous Material Management {SP-O}	3	
Industry 4.0 Courses				
	ROBO 110	Introduction to Robotics and Mechatronics	3	
	ROBO 260	Programmable Controllers	3	
	ROBO 425	Advanced Programmable Logic Controllers (prereq: ROBO 260)	3	
	ROBO 470	Robotics Systems Engineering & Analysis	3	
	ROBO 420	Manufacturing Automation {SP} (prereq: (TM 120 and MM 324)	3	

NOTE: {SP}, {FA}, {SU} = offered every Spring, Fall, or Summer semester only.
{SP-E}, {FA-E}, {SP-O}, {FA-O} = offered every 2 years: Spring or Fall semester,
Odd or Even years

Six credit designated "International"

met: ☐ YES ☐ NO

Equity, Justice and Inclusion Requirement

met: ☐ YES ☐ NO

Assessment Exam Taken with Internship

met: ☐ YES ☐ NO

Double counting Restriction - Of the courses taken in the major and minor/concentration, a total of two courses may be counted to fulfill the Study Areas portion of the general education program.

RESIDENCY REQUIREMENTS: A minimum of 30 credits at CCSU with 15 credits total in the Major, with 12 credits in the Major at 300 level or above.

[illegible]



CENTRAL
CONNECTICUT STATE UNIVERSITY

B.S. MANUFACTURING MANAGEMENT

COURSE SEQUENCE*

1615 Stanley Street • New Britain, Connecticut 06050-4010
Department of Manufacturing & Construction Management
Applied Innovation Hub 214 • 860-832-1830

EFFECTIVE FALL 2023

Recommended Courses to Take for Each Year at CCSU*

First Year Courses

Course	Credits	Notes / Prerequisites
TM 120 Introduction to Technology Management	3	
TM 190 Global Quality Management Systems	3	
MM 121 Mechanical CAD, OR		
ROBO 220 Parametric Modeling and Simulation	3	
MATH 103 College Algebra	3	Per Math Placement Exam
WRT 110 Introduction to College Writing	3	Per Writing Placement Exam
PE 144 College Wellness	2	
PSY 112 Introduction to Psychology	3	
MATH 123 Applied Business Mathematics	3	Prereq or Placement Exam
Literature Requirement	3	Usually ENG 2XX; Prereq WRT 110
CS 113 Introduction to Computer Programming	3	

(total credits) 29

Sophomore Year Courses

Course	Credits	Notes / Prerequisites
MM 216 Manufacturing Processes	3	Prereq MATH 101+
STAT 200 Business Statistics	3	
ENGR 290 Engineering Technical Writing & Present.	3	Prereq WRT 110
AC 210 Accounting for Decision-Making	3	
MGT 295 Fund's of Management & Org. Behavior	3	Prereq WRT 110
ECON 201 Principles of Microeconomics	3	
CHEM 161 General Chemistry	3	Prereq MATH 102+ or Placement Exam
CHEM 162 General Chemistry Laboratory	1	Prereq CHEM 161 (concurrently)
PHYS 111 Introductory Physics I	3	
Foreign Language Prereq	3	Per Placement Exam (or Free Elective)
Free Elective	3	

(total credits) 31

Junior Year Courses

Course	Credits	Notes / Prerequisites
TM 310 Environment, Health and Safety (EH&S)	3	
TM 360 Production Systems	3	
TM 362 Leading Project Teams	3	
TM 366 Supply Chain and Purchasing Strategies	3	
TM 390 Lean Operation Management	3	
TM 426 Applied Metrology	3	Prereq MM 121 or ROBO 220
TM 464 Six Sigma Quality	3	Prereq STAT 200
Directed Elective	3	See list on Advising Sheet
Foreign Language Required Course	3	Per Placement Exam (or Free Elective)
Free Elective	3	

(total credits) 30

Senior Year Courses

Course	Credits	Notes / Prerequisites
TM 401 Industrial Internship	3	Prereq 75 Credits
TM 463 Logistics Management	3	
HIST 1XX History Course	3	
Directed Elective	3	See list on Advising Sheet
Arts/Humanities Elective		
Arts/Humanities Elective	3	Study Area 1
Social Sciences Elective	3	Study Area 2
Directed Elective	3	See list on Advising Sheet
Free Elective	3	

(total credits) 27

Degree Total

117

*This sheet provides courses to take based on a four-year plan in BS Manufacturing Management. CCSU advisors will assist with an incoming and overall plan that fits your needs.