



CENTRAL

CONNECTICUT STATE UNIVERSITY

1615 Stanley Street • New Britain, Connecticut 06050-4010

Department of Manufacturing & Construction Management
Applied Innovation Hub 214 • 860-832-1830

Name: _____

I.D.# _____

B.S. MANUFACTURING MANAGEMENT

EFFECTIVE FALL 2023

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 Mechanical CAD or ROBO 220 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
<p>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</p>		
Six credit designated "International"		
met:	<input type="checkbox"/> YES	<input type="checkbox"/> NO
Equity, Justice and Inclusion Requirement		
met:	<input type="checkbox"/> YES	<input type="checkbox"/> NO
Assessment Exam Taken with Internship		
met:	<input type="checkbox"/> YES	<input type="checkbox"/> NO
<p>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.</p>		
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

Recommended and Free Electives (7-18 Credits, to Complete 120 Credit Total)	
TM 202 Tpc: Study Abroad/International Studies	
MKT 295 Fundamentals of Marketing	
MATH 101, 102, or 103 (C- or Better) (per placement exam)	
Total Credits	Required: 120

