

Central Connecticut State University  
 1615 Stanley Street  
 New Britain, Connecticut 06050-4010  
 Bachelor of Science  
 Effective: \_\_\_\_\_

Name: \_\_\_\_\_

ID #: \_\_\_\_\_

Major: Robotics and Mechatronics Engineering Technology

Entry: Fall , Spring , Transfer Cr.

<b>General Education</b>	<b>Crs</b>
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**STUDY AREAS:**

<b>I. Arts &amp; Humanities (9 credits)</b>	
English Literature	3
Phil or Fine Arts	3
English Literature or Phil or Fine Arts	3

<b>II. Social Sciences (6 credits)</b>	
History	3
ECON Or ET399	3

<b>III. Behavioral Sciences (3 credits)</b>	
Anthropology or Psychology or Sociology	3

<b>IV. Natural Sciences (8 credits)</b>	
PHYS 125 Or PHYS 121	4
CHEM 161 General Chemistry I	3
CHEM 162 General Chemistry I-LAB	1

**SKILL AREAS:**

<b>I. Communication Skills (6 credits)</b>	
ENG 110 University Composition	3
COMM 140 Public Speaking	3

<b>II. Mathematics</b>	
MATH 119 Pre-Cal. With Trig.	4
MATH 152-Calc I	4

<b>III. Foreign Language (0-3 Credits)</b>	
	0-3

<b>IV. University Requirements (2 credits)</b>	
PE 144 Fitness/Wellness	2

<b>Total</b>	<b>42-45</b>
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<b>Major Requirements (55 credits)</b>	<b>Crs</b>
ROBO 110 Introduction to Robotics and Mechatronics	3
<a href="#">ROBO 210 Engineering Mechanics for Automation</a>	4
ROBO 220 Parametric Modeling and simulation	3
ROBO 240 Electric Machines	3
<a href="#">ROBO 260 Programmable Controllers</a>	4
ROBO 280 Embedded Systems Design	3
ROBO 310 Data Acquisition & Processing	3
<a href="#">ROBO 320 Fluid Power Control</a>	4
ROBO 340 Modeling and Simulation in Mechatronics	3
ROBO 350 Applied Control Systems I	3
ROBO 370 Mechanisms for Automation	3
<a href="#">ROBO 380 Mechatronics</a>	4
<a href="#">ROBO 390 Robotics, Theory and Application</a>	3
ROBO 460 Applied Control Systems II	3
ROBO 480 Industrial Robotics	3
ROBO 496 Industrial Internship	3
ROBO 497 Capstone: Senior Project	3
<b>Total</b>	<b>55</b>

<b>At least two out of four courses (6-9 credits)</b>	<b>Cr</b>
<a href="#">ROBO 425 Advance Programmable Logic Controllers</a>	3
ROBO 440 Machine Vision and Image Processing	3
ROBO 450 Autonomous and Intelligent Mobile Robots	3
ROBO 470 Robotics Systems Engineering and Analysis	3

<b>Additional Requirements (24 credits)</b>	<b>Crs</b>
CET236 Circuit Analysis	3
CET 270 Electronic Circuits and Devices for Robotics	3
CET363 Digital Circuits	3
MATH 221 Calc. II	4
MATH226 Linear Algebra and Probability for Engineers, Or	4
MATH228 Introduction to Linear Algebra	
MATH355 Introduction to Differential Equations	4
MM216 Manufacturing Processes	3
<b>Total</b>	<b>24</b>

(Taking Foreign Language)	Total Credits =42+3+55+6+24=	130
	Total Credits =42+55+9+24=	130

