

Plymouth State University CURRICULUM PLANNING GUIDE with APPLICATION of TRANSFER CREDIT

**2+2 Agreement: AS in Robotics and Automation Engineering Technology at NHTI, Concord's Community College and BS in Electromechanical Technology and Robotics at Plymouth State University**

<b>Years 1 and 2 at NHTI, Concord's Community College</b>			
Course ID	Course Title	Credits	
<b>Year One</b>	<b>at NHTI</b>		<b>at PSU &amp; Other Information</b>
ELET 101C	Electric Circuits	4	CS 3690 (with RAET 210C)
ELET 115C	Digital Fundamentals	3	CS 2220 (elective credits)
ENGL 120C ENGL 125C	Communications or Literature of Science and Technology	3	(CTDI)
MATH 124C	College Algebra	4	MA 1800 (elective credits)
MCET 105C	Engineering Design	4	CS 3890 (with MFET 111C)
CPET 107C	Intro to Programming w/ C++	3	CS 2370
CPET 215C	<i>Integrated Circuits and Interfacing*</i>	<b>4</b>	<i>CS 2525 (with RAET 205C) - important see page 2</i>
ENGL 101C	English Composition	4	EN 1400
MATH 140C	Pre-Calculus	4	MA 2140 (QRCO) (TECO)
MFET 111C	Manufacturing And Materials Processing	4	(SIDI) or (elective credits) - see page 2
<b>Year Two</b>	<b>at NHTI</b>		
MATH 205C	Calculus I	4	MA 2550 (QRCO)
MFET 210C	Lean manufacturing**	3	(SSDI) - see page 2
PHYS 133C	Physics I	4	(SIDI)
RAET 205C	<i>PLC Programming*</i>	3	<i>CS 2525 (with CPET 215C) - important see page 2</i>
RAET 210C	Robotics and Automation I	4	CS 3690 (with ELET 101C)
XXxxxC	Social Science Elective	3	(PPDI) - see page 2
ELET 102C	<i>Circuit Analysis*</i>	4	<i>Elective credits - important see page 2</i>
MFET 231C	Production Systems**	3	(SSDI) - see page 2
PHYS 135C	Physics II	4	(SIDI)
RAET 220C	Robotics and Automation II	4	Major elective credits
XXxxxC	Human/Fine Arts/Foreign Language Elective	3	(GACO) - see page 2
	<b>Total Credits for both years at NHTI</b>	<b>69</b>	

<b>Years 3 and 4 at PSU</b>			
Course ID	Course Title	Credits	
<b>Year Three</b>	<b>at PSU</b>		
<b>Fall</b>			
CS 2010	Computing Fundamentals	3	(TECO)
CS 2381	Data Structures & Intermediate Programming	4	
CS	Major Elective	4	
MA 2250	Mathematics for Computer Scientists	3	(MATH)
<b>Spring</b>			
CS 2470	System Programming in C/C++	2	
CS 3720	System Analysis and Design	3	
CS 2521	Introduction to Electromechanical Technology	3	
MA 2300	Statistics	4	(QRCO)
<b>Year Four</b>	<b>at PSU</b>		
<b>Fall</b>			
CS 3240	Data Communication and Computer Networks	3	
CS 3420	Introduction to Cybersecurity	3	
CS 4520	CyberEthics	3	(DICO) (INCO) (WRCO)
CS 4690	Robotics II	4	
<b>Spring</b>			
CS 4790	Robotics III	4	
	Elective	3	
	Elective	3	
WECO	Wellness Connection	3	
	<b>Total Credits taken at PSU</b>	<b>52</b>	
if total credit amount does not equal or exceed 120, PSU advisors will provide guidance to ensure total is met.			

**\*\*\*Important - Please read policies and recommendations on Page 2**

**AS in Robotics and Automation Engineering Technology at NHTI, Concord's Community College  
and BS in Electromechanical Technology and Robotics at Plymouth State University**

**Important Agreement Policies**

**Course Specific Recommendations and Requirements**

\*CPET 215C Integrated Circuits + RAET 205C PLC Programming

~NHTI allows choice in which course is taken, however, to follow this 2+2, a student must take CPET 215C. If ELET 102C Circuit Analysis is taken, it will transfer in as an elective and RAET 205C PLC Programming will also transfer in as an elective and then CS 2525 Microcontroller and Distributed Systems equivalent will not be given and CS 2525 will have to be taken at PSU. If CS 2525 needs to be taken at PSU, a student will work with a faculty advisor to integrate the course into year 3 or 4.

\*\*MFET 210C Lean Manufacturing or MFET 231C Production System

~NHTI allows choice in which course is taken, when transferred either course will count as a Self & Society Direction (SSDI).

MFET 111C Manufacturing And Materials Processing

~This course will transfer as either elective credits or Scientific Inquiry Direction (SIDI) based on what is needed.

XXxxxC Social Science Elective

~ Must take a course approved for Past and Present Direction (PPDI) - please reference the Transfer Database link below to see approved courses.

XXxxxC Human/FA/FL Elective

~ Must take a course approved for Global Awareness Connection (GACO) - please reference the Transfer Database link below to see approved courses.

**Transfer Credit Policies**

Courses completed at NHTI that transfer as "elective credits" will apply toward electives needed.

Credits for IS 1111 become electives for transfer students entering with 24 or more credits.

The maximum number of transfer credits that can be applied to a PSU bachelor degree is 90.

**2+2 Requirements**

Students coming to PSU must have grades of C or better in each of their courses and a minimum of a 2.0 cumulative GPA in order to transfer into the BS in Electromechanical Technology and Robotics under this 2+2 agreement.

Students who have completed the AS degree in Robotics and Automation Engineering Technology with one course with a grade of C- or below, may retake that course preceding entrance to PSU and will be accepted at PSU under this 2+2 agreement, if a grade of C or higher is earned.

If a student has not completed the AS degree in Robotics and Automation Engineering Technology, then courses will be transferred on a course-by-course basis.

Please reference Transfer Database below for course-by-course equivalents.

At NHTI, you must complete the course requirements as outlined in this agreement. If you do not, it may take longer than two years to complete the EMTR degree at PSU.

For more information on how other courses may transfer to Plymouth State University please reference our Transfer Database:

[https://www.plymouth.edu/webapp/banner/psc1/transfer\\_credit\\_query/](https://www.plymouth.edu/webapp/banner/psc1/transfer_credit_query/)

Advisors at NHTI will work with students to ensure the above agreement is followed and will consult with an approved PSU representative as needed.

Please reference PSU'S most current catalog on transfer policy, curriculum and any other necessary information:

<https://campus.plymouth.edu/registrar/catalog-academic-policies-and-programs/>