SUNY CANTON

Effective dates: _December 1, 2019_ through _November 30, 2022_

		Rockland Community College A.A. – Liberal Arts and Sciences: Mathematics and Science – Math Track			SUNY Canton B. Tech– Mechanical Engineering Technology (0235)		
Semester	**Course #**	**Course Name**	**Cr**	**Course #**	**Course Name**	**Cr**
1	ENG 101 & SPE 101	College Writing I (GER 10) and Fundamentals of Speech	6	ENGL 101	Composition and the Spoken Word (GER 10)	3
		‡ Transfer credit option available		ENGS 101	Introduction to Engineering	2
	MAT 135	Pre-Calculus (Pre-requisite) (Elective)	4	MATH 123	Pre-Calculus (GER 1)	4
	PHY 105	Engineering Physics I (Natural Science Gen. Ed. w/Lab)	4	PHYS 121/131 & PHYS 125/135	College/University Physics I & Physics Lab I (GER 2)	4
				MECH 121	Manufacturing Process I	3
Semester	**Course #**	**Course Name**	**Cr**	**Course #**	**Course Name**	**Cr**
2					CAD Elective	2-3
		‡ Transfer credit option available		CONS 172	Technical Statics	3
	MAT 203	Calculus I	4	MATH 161	Calculus I (GER 1)	4
				MECH 128	Electromechanics	3
	PHY 106	Engineering Physics II (Science Elective w/Lab)	4	PHYS 122/132 & PHYS 126/136	College/University Physics II & Physics Lab II	4
Semester	**Course #**	**Course Name**	**Cr**	**Course #**	**Course Name**	**Cr**
3		‡ Transfer credit option available		ELEC 261	Electricity	4
		‡ Transfer credit option available		ENGS 102	Programming for Engineers	
	MAT 204	Calculus II	4	MATH 162	Calculus II	4
				MECH 241 & MECH 242	Fluid Mechanics & Fluid Power Lab	4
		‡ Transfer credit option available		CONS 272	Strength of Materials for Technology	3
Semester	**Course #**	**Course Name**	**Cr**	**Course #**	**Course Name**	**Cr**
4				MECH 220	Engineering Materials	3
				MECH 232	Machine Design	3
	MAT 205	Calculus III	4		Program Elective	3
					Program Elective	3
		Social Science General Education Elective (GER 3)	3		GER Elective (3, 4, 5, 6, 7, 8, 9)	3
Semester	**Course #**	**Course Name**	**Cr**	**Course #**	**Course Name**	**Cr**
5	MAT 206	Differential Equations	4	MATH 364	Differential Equations	3
		‡ Transfer credit option available		MECH 301	Technical Dynamics	3
				MECH 342	Thermodynamics	3
				SOET 377	Engineering Ethics	1
		General Education Elective (GER 4, 5, or 9)	3		GER Elective (3, 4, 5, 6, 7, 8, 9)	3
					U/L Program Elective	3
Semester	**Course #**	**Course Name**	**Cr**	**Course #**	**Course Name**	**Cr**
6				MATH 141	Statistics	3
				MECH 343	Heat Transfer	3
					U/L Program Elective	3
					U/L Program Elective	3
		General Education Elective (GER 6 or 8)	3		GER Elective (3, 4, 5, 6, 7, 8, 9)	3
Semester	**Course #**	**Course Name**	**Cr**	**Course #**	**Course Name**	**Cr**
7				MECH 341	Intermediate Fluid Mechanics	3
				MECH 377	Capstone Research and Proposal	1
				SOET 361	Project Management	3
					U/L Program Elective	3
					U/L Program Elective	3
	ENG 102	College Writing II (GER 7)	3		GER Elective (3, 4, 5, 6, 7, 8, 9)*	3
Semester	**Course #**	**Course Name**	**Cr**	**Course #**	**Course Name**	**Cr**
8				MECH 477	Capstone Project	3
				SOET 370	Engineering Economics	3
					U/L Program Elective**	3
					U/L Program Elective**	3
		Accepted Transfer Credit Total	**46**		**SUNY Program Credit Total**	**126**

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‡ Multiple transfer credit options available depending on elective courses selected. Credits for these requirements will be accepted as follows:

Rockland Community College A.A. – Liberal Arts and Sciences: Mathematics and Science – Math			SUNY Canton B. Tech– Mechanical Engineering Technology (2250)		
Course #	Course Name	Cr	Course #	Course Name	Cr
	Electives: Choose Three				
ENR 105	Introduction to Engineering	3	ENGS 101	Introduction to Engineering	2
ENR 203	Engineering Statics	3	CONS 172	Technical Statics	3
CSP 141	Intro to Programming In C++	4	ENGS 102	Programming for Engineers	2
ENR 206	Electric Circuits	4	ELEC 261	Electricity	4
ENR 210	Strength and Materials	3	CONS 272	Strength of Materials for Technology	3
ENR 204	Engineering Dynamics (L/L course credit only)	3	MECH 301	Technical Dynamics	3
Additional Accepted Elective Transfer Credits		**9-11**		**Total Credits**	**7-10**

TOTAL Credits Accepted for Transfer (from both tables above): 55-57

Transfer credits for Rockland Community College program requirements will be accepted as follows, however do not serve to fulfill requirements of SUNY Canton's Mechanical Engineering Technology, B.Tech program:

Rockland Community College			SUNY Canton		
Course #	Course Name	Cr	Course #	Course Name	Cr
MCS 101	Introduction to Multicultural Studies (GER 3)	3		General Education Elective (GER 3)	3

Additional Notes

* Fulfills writing intensive requirement

U/L = Upper Level Courses (300/400)

GER = General Education Requirement

NOTE: Mechanical Engineering Technology students must meet seven of ten General Education Requirements, 45 upper level credits.

Student Learning Outcomes can be found at www.canton.edu/csoet/mech/.

STUDENT ELIGIBILITY: Graduates of Associate of Arts– Liberal Arts and Sciences: Math and Science - Math program at Rockland Community College must possess a **minimum cumulative grade point average of 2.0 on a 4.0 scale.** SUNY Canton **assures acceptance for Rockland Community College students who have a cumulative GPA of 3.0 or better.** Students are encouraged to apply during their last semester at Rockland Community College.

Program Contact

Dr. Lucas Craig, Curriculum Coordinator, Mechanical Engineering Technology
SUNY Canton
34 Cornell Drive, NN 105
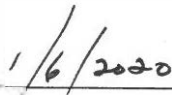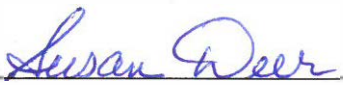Canton, New York 13617
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APPROVALS

Rockland Community College:
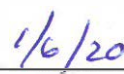
_____   ___1/6/2020___
Dr. Michael A. Baston   Date
President

_____   ___1/6/20___
Dr. Susan Deer   Date
Provost and Vice President of Academic Affairs and Student Services

SUNY Canton:

_____   ___12/6/19___
Michael Newtown   Date
Dean, Canino School of Engineering
Technology

_____   ___12/6/19___
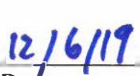Dr. Lucas Craig   Date
Curriculum Coordinator, Mechanical
Engineering Technology