Appendix A: Transfer Course Equivalencies

Effective dates: _September 1, 2020_ through _August 31, 2023_

Semester	Course #	Course Name	Cr	Course #	Course Name	Cr
	SUNY Erie Community College **A.S. – Engineering Science**			**SUNY Canton** **B. Tech– Mechanical Engineering Technology (0235)**		
Semester	**Course #**	**Course Name**	**Cr**	**Course #**	**Course Name**	**Cr**
1	EN 100	Composition I: Rhetorical Strategies	3	ENGL 101	Composition and the Spoken Word (GER 10)	3
	ES 138	Engineering Concepts	1	ENGS 101	Introduction to Engineering	2
	MT 283	Calculus and Analytic Geometry III (course substitution)		MATH 123	Pre-Calculus Algebra (GER 1)	4
	PH 280 & 281	Physics for Science & Engineering I & 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	ES 177	Intro to 3D Modeling using CREO Parametric	2		CAD Elective	2-3
	ES 207	Statics	3	CONS 172	Technical Statics	3
	MT 181	Calculus and Analytic Geometry I	4	MATH 161	Calculus I (GER 1)	4
				MECH 128	Electromechanical Technology	3
	PH 282 & 283	Physics for Science & Engineering II & 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				ELEC 261	Electricity	4
	ES 230	Engineering Problem Solving Using MATLAB	3	ENGS 102	Programming for Engineers	
	MT 182	Calculus and Analytic Geometry II	4	MATH 162	Calculus II	4
				MECH 241 & MECH 242	Fluid Mechanics & Fluid Power Lab	4
	ES 209	Mechanics of Materials	3	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
	CH 180 & 181	University Chemistry I & Lab	4		Program Elective	3
	ES 200	Electrical Networks	4		Program Elective	3
		Gen. Ed. Elective (GER 8 or 9)	3		GER Elective (3, 4, 5, 6, 7, 8, 9)	3
Semester	**Course #**	**Course Name**	**Cr**	**Course #**	**Course Name**	**Cr**
5	MT 284	Introduction to Differential Equations (L/L course credit only)	4	MATH 364	Differential Equations	4
	ES 208	Dynamics	3	MECH 301	Technical Dynamics	3
	ES 204	Thermodynamics (L/L course credit only)	4	MECH 342	Thermodynamics	3
				SOET 377	Engineering Ethics	1
	EN 102	Composition for the STEM Disciplines (GER 7) (General Education Elective)	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
		Gen. Ed. Elective (GER 3, 4, 5, or 6)	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
		Gen. Ed. Elective (GER 3, 4, 5, or 6)	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	**60**		**SUNY Program Credit Total**	**127**

REV JUNE 2020

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

SUNY Erie Community College			SUNY Canton		
Course #	**Course Name**	**Cr**	**Course #**	**Course Name**	**Cr**
ES 139	Computer Skills for Engineers	1	ENGS 299	L/L Engineering Elective	1
			SOET 250	Intro to 3D CAD and BIM	2

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, maintain a minimum 2.0 GPA and complete the OSHA 10 hour safety training for graduation

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

STUDENT ELIGIBILITY: Graduates of <u>Associate of Science– Engineering Science</u> program at <u>SUNY Erie</u> Community College must possess a **minimum cumulative grade point average of <u>2.0 on a 4.0 scale</u>**. SUNY Canton **assures acceptance for SUNY Erie Community College students who have <u>a cumulative GPA of 3.0 or better</u>**. Students are encouraged to apply during their last semester at SUNY Erie Community College.

Program Contact

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APPROVALS

SUNY Erie Community College:

No signature required

SUNY Canton:

Michael Newtown	9/22/2020
Dean, Canino School of Engineering Technology	Date
Lucas Craig	09/10/2020
Program Director, Mechanical Engineering Technology	Date