

EXHIBIT A

The following is a list of required courses for the Associates of Engineering Science degree.

Community College Courses

CC Course #	CC Course Name	Units	MSU Course #	MSU Course Name	Units
ENG 1021	English Comp I	3	ENG 1010	Composing Arguments	3
ENG 1022	English Comp II	3	ENG 1020	Research Arg. Writing	3
COM 1150	Public Speaking	3	COMM 1010	Presentational Speaking	3
*MAT 1440	Pre-calculus	5	MTH 1400	Pre-calculus	4
MAT 2410	Survey of Calculus I	5	MTH 1410	Calculus I	4
MAT 2420	Survey of Calculus II	5	MTH 2410	Calculus II	4
PHY 2111	Physics: Calculus-Based I	5	PHY 2311	General Physics I	4
			PHY 2321	General Physics Lab	1
PHY 2112	Physics: Calculus-Based II	5	PHY 2331	General Physics II	4
			PHY 2341	General Physics II Lab	1
CHE 1111	General College Chemistry	5	CHE 1100	General Chemistry	4
			CHE 1150	General Chem I Lab	1
**EGG 1040	Intro to Engineering	3	CET/EET/ MET 1040	Intro to Engineering	3
	***Engineering Elective	3			
	GT-SBS	3		GT-SBS	3
	†GT- AH-1	3		GT- AH -1	3
	††GT-History	3		GT- History	3
Total		60			58

* Students who have taken Pre-calculus before attending Community College will take 4 credits of Engineering electives instead. Students who have taken both Pre-calculus and Calculus before attending Community College will take 8 credit units of electives.

** EGG 1040 transfers to MSU Denver as either CET 1040, EET 1040, or MET 1040.

Computer Engineering students should take MAT 1260 Introduction to Statistics which transfers to MSU Denver as MTH 1210 which is required for Computer Engineering.

Environmental Engineering students should take ENV 1010 Environmental Science with Lab which transfers to MSU Denver as ENV 1200 Introduction to Environmental Science.

*** Computer Engineering students should take CSC 1060 Computer Science I which transfers to MSU Denver as CS 1050 Computer Science I.

†MSU Denver requires one 3-credit course to fulfill the Ethnic Studies and Social Justice (ESSJ) requirement that must be taken at the university. An additional 3-credit course is needed to fulfill the Global Diversity requirement.

The following 3-credit Arts and Humanities and History courses are recommended because they fulfill both the General Studies and Global Diversity requirements at MSU Denver.

ARTH 1600	World Art I: Art Prior to 1400
ART 1112	Art History - Renaissance - 1900
ART 1302	Painting II
HIS 1110	The World: Antiquity - 1500
HIS 1112	The World: 1500 – present
HIS 2300	The Middle Ages
HIS 2610	History of Modern China
HIS 1320	Western Civ: 1650-present
HIS 2200	History of Latin America
HIS 2005	Women in World History

MSU Courses: Electrical Engineering Technology

Required Major Courses

EET 1140 - Circuits	4
EET 1150 - Circuits II	4
EET 2145 - Electronics	3
EET 2165 - Electronics Laboratory	1
EET 2310 - Digital Circuits I	3
EET 2340 - Technical Programming	3
EET 2350 - Advanced Technical Programming	3
EET 3110 - Transform Methods in Circuit Analysis	4
EET 3120 - Advanced Analog Electronics	4
EET 3330 - Digital Circuits II	3
EET 3410 - Electric Machines	3
EET 3620 - Analog and Digital Communications	3
EET 3630 - Electromagnetic Fields	3
EET 3715 - Control Systems Analysis	4
EET 3730 - Process Control Systems	2
EET 3740 - Programmable Logic Controllers	2
EET 4340 - Interface Techniques	3
EET 4370 - Microcontrollers	3
JMP 2610 - Introduction to Technical Writing	3
EET 4100 - Senior Project I	1
EET 4110 - Senior Project II	2

Total **57**

EET Technical Electives

Students must complete 18 credits from the following list:

EET 3420 - Electric Power Distribution	3
EET 3430 - Power Generation Using Renewable Energies	3
EET 3690 - Fiber Optics	3
EET 3670 - Measurements for Communications Systems	3
EET 3980 - Internship in Electrical Engineering Technology <i>(A maximum of 4 credit hours can be applied to the EET major.)</i>	2-4
EET 4020 - Digital Circuits III - Hardware Description Language	3
EET 4320 - Digital Filters	3
EET 4330 - Data Communications	3
EET 4620 - Advanced Communications Systems	3
EET 4710 - Digital Control Systems Design	4
EET 4730 - Robotics	3

Transfer credits **58**

Required major courses **57**

Major electives **18**

ESSJ Requirements **3**

Total **136**