Addendum B: Computer Engineering (BSCE)

Satisfaction of the following CLC courses is assumed upon entry into the Computer Engineering program at MSOE. Any course requirement that is not met must be satisfied at MSOE or with approved transfer credit.

CLC Course Number	CLC Course Name	Equivalent MSOE Course Number
Communication & General Education		
ENG 121	English Composition 1	COM 1001
ENG 126	Scientific & Technical Communication	COM 2001
ECO 222	Principles of Microeconomics	BUS 2221
PHI 125 (suggested)	Intro to Ethics - See appendix for more options	HUM 0103
SOC 121 (suggested)	Introduction to Sociology - See appendix for more options	SOC 1001
Mathematics & Natural Science		
MTH 145	Calculus & Analytic Geometry I	MTH 1110
MTH 146	Calculus & Analytic Geometry II	MTH 1120
MTH 246	Calculus & Analytic Geometry III	MTH 2130
MTH 227	Differential Equations	MTH 2140
CHM 121	General Chemistry I	CHM 1010
PHY 123	Physics for Science & Engineering I	PHY 1110
PHY 124	Physics for Science & Engineering II	PHY 1120
Computer Engineering Courses		
CSC 128	Computer Science I	CPE 1040
CSC 148	Computer Science II	CPE 1140
MTH 244	Discrete Mathematics	MTH 2310
EET 223 **OR**	Intro to Digital Electronics **OR**	CPE 1500
EGR 260	Circuit Analysis	ELE 2021
MTH 225	Linear Algebra	MTH 2340

ADDITIONAL BSCE TRANSFER COURSES AVAILABLE THROUGH CLC

Complete two of these additional courses to facilitate a four-semester completion at MSOE

CLC Course Number	CLC Course Name	Equivalent MSOE Course Number
Communication & General Education		
CMM 121	Fundamentals of Speech	COM 3001
ECO 221	Macroeconomics	BUS 2222

Addendum B: Computer Engineering (BSCE)

Courses remaining in the Computer Engineering program (BSCE) at MSOE.

*Courses marked with an asterisk are available at CLC. Completion prior to MSOE enrollment will facilitate a faster time to graduation.

MSOE Course Number	MSOE Course Name	Semester Credits
Communication & General Education		
*COM 3001	Professional Presentations	3
*BUS 2222	Macroeconomics	3
*Exhibit Curiosity CLO	Many Options	3
Mathematics & Natural Science		
MTH 2480	Probability & Statistics	3
BSCE Program		
IDS 2020	Career Development	0
CPE 1500 **OR** ELE 2001	Digital Logic **OR** Electric Circuits I	4
CPE 2600	Systems Programming	4
CPE 1510	Computer Architecture & Assembly Language	4
CPE 2610	Embedded Systems	4
ELE 2011	Electric Circuits II	4
ELE 3101	Electronics I	4
ELE 3300	Signals & Systems	3
ELE 3320	Digital Signal Processing	3
CPE 3600	Embedded Systems Design	4
CPE 3300	Computer Networking	4
CPE 4800	Information Security	4
CPE 4901	CE Senior Design Project I	3
CPE 4902	CE Senior Design Project II	3
Elective	Program Elective	3
Elective	Program Elective	3
Elective	Free	3
Total		**69**

APPENDIX: GENERAL EDUCATION HUMANITIES & SOCIAL SCIENCE EQUIVALENCIES

MSOE requires courses that fulfill Common Learning Outcome (CLO) categories.
The following four CLO categories can be satisfied with CLC courses:

- Exhibit Curiosity CLO
- Embrace Diversity CLO
- Demonstrate Ethical Understanding
- Choice CLO – Choose one course from the table below

Note: Each course counts towards only one CLO and the same course cannot fulfill multiple CLO categories.

CLO	CLC Courses	Equivalent MSOE Courses
Exhibit Curiosity	ANT 121 Intro to Anthropology	ANT 1001 Cultural Anthropology
	ANT 221 Cultural Anthropology	ANT 1001 Cultural Anthropology
	ART 121 Intro to Art	AHT 2001 Western Art History
	ART 240 History of Art I	HUM 0106 AHT EL
	ART 241 History of Art II	HUM 0106 AHT EL
	ECO 221 Principles of Macro	BUS 2222 Macroeconomics
	ECO 222 Principles of Micro	BUS 2221 Microeconomics
	ENG 128 Linguistics & Society	PSY 2010 Understanding Hum. Lang.
	ENG 243 Introduction to Fiction	LIT 2010 Literary Genres
	HST 121 Western Civ to 1500	HUM 0106 HIST EL
	HST 122 Western Civ 1500 to Present	HUM 0106 HIST EL
	HST 126 Non-Western World	HUM 0106 HIST EL
	HST 142 World History from 1500	HUM 0106 HIST EL
	HST 221 US History to 1876	HST 1013 US History I
	HST 222 US History 1876-Present	HST 1014 US History II
	HUM 123 Intro to Film	FNA 4010 Film & Media Studies
	HUM 222 Film & Society	FNA 4010 Film & Media Studies
	PSY 121 Intro to Psychology	PSY 1001 Foundations of Psychology
	PSY 122 Industrial/Org Psychology	PSY 2003 Organizational Psychology
	PSY 220 Lifespan Psychology	PSY 3003 Developmental Psychology
	PSY 222 Child Growth & Develop.	SSC 0106 PSY EL
	PSY 223 Abnormal Psychology	PSY 3002 Psych. Disorders
	SOC 121 Introduction to Sociology	SOC 1001 Foundations of Sociology
	SPA 121 Beginning Conver. Span I	SPN 1001 Elementary Spanish
	SPA 122 Beginning Conver. Span II	SPN 1001 Elementary Spanish
Embrace Diversity	ANT 121 Introduction to Anthro.	ANT 1001 Cultural Anthropology
	ANT 221 Cultural Anthropology	ANT 1001 Cultural Anthropology
	PHI 123 Philosophy of Religion	PHL 3209 Philosophy of Religion
	PSY 223 Abnormal Psychology	PSY 3002 Psych. Disorders
	SOC 121 Introduction to Sociology	SOC 1001 Foundations of Sociology
	SPA 121 Beginning Conver. Span I	SPN 1001 Elementary Spanish
	SPA 122 Beginning Conver. Span II	SPN 1001 Elementary Spanish
	SPA 224 Spanish Civilization II	SPN 4980 Topics in Spanish
Ethical Understanding	PHI 125 Intro to Ethics	HUM 0103 Demonstrate Ethical