Addendum A: Civil Engineering (BSCVE)

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

McHenry Course Number	McHenry Course Name	Equivalent MSOE Course Number
Communication & General Education		
ENG 151 (ENG 152 is also required for AES degree)	Composition 1	COM 1001
ANT 170 (suggested)	Introduction to Cultural Anthropology See appendix for more options	ANT 1001 Diversity CLO
PHI 161 (suggested)	Introduction to Ethics See appendix for more options	HUM 0103 Ethical Understanding CLO
ECO 251 (suggested)	Microeconomics See appendix for more options	BUS 2221 Curiosity CLO
Mathematics & Natural Science		
MAT 175	Calculus with Analytic Geometry I	MTH 1110
MAT 245	Calculus with Analytic Geometry II	MTH 1120
MAT 255	Calculus with Analytic Geometry III	MTH 2130
MAT 260	Differential Equations	MTH 2140
CHM 165	General Chemistry I	CHM 1010
PHY 291	Principles of Physics I	PHY 1110
PHY 292	Principles of Physics II	PHY 1120
Civil Engineering Courses		
CSC 121	Computer Science I	Computer Science Elective
EGR 251	Statics	CAE 2513
EGR 151	Engineering Graphics	Free Elective
EGR 252 or 260	Dynamics or Circuit Analysis	Technical Elective

ADDITIONAL BSCVE TRANSFER COURSES AVAILABLE THROUGH McHENRY

McHenry Course Number	McHenry Course Name	Equivalent MSOE Course Number
Communication & General Education		
ENG 105	Technical Communications	COM 2001
SPE 151	Introduction to Speech	COM 3001

Addendum A: Civil Engineering (BSCVE)

Courses remaining in the Civil Engineering program at MSOE.

*Courses marked with an asterisk are available at McHenry College.

MSOE Course Number	MSOE Course Name	Semester Credits
Communication & General Education		
*COM 2001	Writing for the STEM Disciplines	3
*COM 3001	Professional Presentations	3
Mathematics & Natural Science		
MTH 2480	Probability & Statistics	3
BSCVE Program		
CAE 1811	Introduction to the Built Environment	3
CSC 2661	Python for AI	1
CAE 1001	Professional Growth I	0
CAE 2001	Professional Growth II	0
CAE 3001	Professional Growth III	0
CAE 1873	Construction Materials	3
CAE 2512	Mechanics of Materials	3
CVE 2853	Civil 3D	3
CAE 1874	Construction Methods	3
CAE 2711	Fluid Mechanics	3
CON 3001	Principles of Cont. Project Management	3
CAE 2012	Surveying Concepts	1
CVE 4901	Capstone: Alternatives Analysis	4
CAE 4881	Sustainability & Resilience	3
CVE 3301	Principles of Soils & Geotech. Engineering	3
CVE 4902	Capstone: Detailed Design	4
Elective	Upper Division Civil Engineering	3
Elective	Upper Division Civil Engineering	3
Elective	Upper Division Civil Engineering	3
Elective	Upper Division Civil Engineering	3
Elective	Upper Division Civil Engineering	3
Elective	Economics	3
Elective	Graphics	3
Elective	Technical	3

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 McHenry courses:

- Exhibit Curiosity CLO
- Embrace Diversity CLO
- Demonstrate Ethical Understanding CLO
- Choice of CLO – Select any course listed from the table below

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

General Education Humanities & Social Science

CLO	McHenry Courses	Equivalent MSOE Courses
Exhibit Curiosity	ANT 170 Intro to Cultural Anthropology	ANT 1001 Cultural Anthropology
	ANT 151 Introduction to Anthropology	HUM 0106 Exhibit Curiosity
	ECO 251 Microeconomics	BUS 2221 Microeconomics
	ECO 252 Macroeconomics	BUS 2222 Macroeconomics
	ENG 275 Women's Literature	HUM 0106 Exhibit Curiosity
	GER 151 Elementary German I	GER 1001 Elementary German
	GER 152 Elementary German II	GER 100 Elementary German
	GER 251 Intermediate German I	GER 2001 Intermediate German
	GER 252 Intermediate German II	GER 2001 Intermediate German
	HIS 170 United States History I	HST 1013 United States History I
	HIS 172 United States History II	HST 1014 United States History II
	MUS 154 Music Appreciation	HST 2053 Music History
	PHI 151 Introduction to Philosophy	PHL 3201 Introduction to Philosophy
	PHI 155 Introduction to Logic	PHL 3202 Introduction to Logic
	PHI 160 Eastern Philosophy	PHL 3104 Eastern Philosophy
	PLT 151 United States Government	PSC 2011 American Government
	PSY 151 Introduction to Psychology	PSY 1001 Foundations of Psychology
	SOC 151 Introduction to Sociology	SOC 1001 Foundations of Sociology
	SPA 151 Elementary Spanish I	SPN 1001 Elementary Spanish
	SPA 152 Elementary Spanish II	SPN 1001 Elementary Spanish
	SPA 251 Intermediate Spanish I	SPN 2001 Intermediate Spanish
	SPA 252 Intermediate Spanish II	SPN 2001 Intermediate Spanish
	THE 151 Intro to Theater	FNA 2002 Drama and the Theater
Embrace Diversity	ANT 170 Intro to Cultural Anthropology	ANT 1001 Cultural Anthropology
	GER 151 Elementary German I	GER 1001 Elementary German
	GER 152 Elementary German II	GER 100 Elementary German
	GER 251 Intermediate German I	GER 2001 Intermediate German
	GER 252 Intermediate German II	GER 2001 Intermediate German
	PHI 165 Religions of the World	HUM 0104 Embrace Diversity
	SOC 151 Introduction to Sociology	SOC 1001 Foundations of Sociology
	SPA 151 Elementary Spanish I	SPN 1001 Elementary Spanish
	SPA 152 Elementary Spanish II	SPN 1001 Elementary Spanish
	SPA 251 Intermediate Spanish I	SPN 2001 Intermediate Spanish
	SPA 252 Intermediate Spanish II	SPN 2001 Intermediate Spanish
Other	PHI 161 Introduction to Ethics	HUM 0103 Demonstrate Ethical