MINNESOTA STATE UNIVERSITY, MANKATO

Civil Engineering Program 2015-2016

Pre-requisite
Co-requisite

First Year

Fall	Spring
ENG 101 English Composition 4 cr.	**H/SS Elective** Approved List 3 cr.
MATH 121 Calculus I 4 cr.	**MATH 122** Calculus II 4 cr.
CHEM 201 Chemistry I 5 cr.	**PHYS 221** Physics I 4 cr.
CIVE 101 Intro. to Civil Engineering 2 cr.	**CIVE 201** Problem Solving & Design 2 cr.
	CIVE 145 CAD for Civil Engineering 2 cr.

Second Year

Fall	Spring
ECON 201 or 202 Economics 3 cr.	**ENG 271** Technical Communication 4 cr.
MATH 321 Differential Equations 4 cr.	**MATH 223** Calculus III 4 cr.
PHYS 222+232 or PHYS 223+233 Physics II or III 3+1 cr.	**ME 299[a]** Thermal Analysis 2 cr.
ME 212 Statics 3 cr.	**ME 214** Dynamics 3 cr.
CIVE 271 Civil Eng. Measurements 2 cr.	**ME 223** Mechanics of Materials 3 cr.

Third Year

Fall	Spring
H/SS Elective Approved List 3 cr.	
	CIVE 235 Civil Engineering Materials 3 cr.
ME 291 Engineering Analysis 3 cr.	**CIVE 4xx or Tech. Elective[b]** 3 cr.
CIVE 321 Fluid Mechanics 3 cr.	**CIVE 350** Hydraulics and Hydrology 4 cr.
CIVE 370W Transportation 4 cr.	**CIVE 360** Geotechnical Engineering 4 cr.
CIVE 340 Structural Analysis 3 cr.	**CIVE 446 or 448** Reinforced Concrete OR Steel Design 3 cr.

Fourth Year

Fall	Spring
H/SS Elective Approved List 3 cr.	**H/SS Elective** Approved List 3 cr.
Science Elective[b] Approved List 4 cr.	**Tech. Elective[b]** Approved List 2 cr.
CIVE 380 Environmental Engineering 3 cr.	**CIVE 4xx** CIVE Elective 3 cr.
CIVE 401 Civil Eng. Design I 2 cr.	**CIVE 402** Civil Eng. Design II 3 cr.
CIVE 435 Experimentation I 2 cr.	**CIVE 436** Experimentation II 2 cr.
CIVE 4xx CIVE Elective 3 cr.	**CIVE 4xx** CIVE Elective 3 cr.

	Fall	Spring
First Year	15	15
Second Year	16	16
Third Year	16	17
Fourth Year	17	16

[a]ME 241 is also acceptable; [b]Science, Technical and CIVE Elective credits must be a minimum of 18.

Total: 128

Revised September 2015