MINNESOTA STATE UNIVERSITY, MANKATO

Civil Engineering Program 2013-2014

Pre-requisite
Co-requisite

First Year	**Fall**	**ENG 101** English Comp. 4 cr.	**MATH 121** Calculus I 4 cr.	**CHEM 201** Chemistry I 5 cr.	**CIVE 101** Intro. to Civil Eng. 2 cr.		15
	Spring	**H/SS** Elective 3 cr.	**MATH 122** Calculus II 4 cr.	**PHYS 221** Physics I 4 cr.	**CIVE 201** Prob. Solv. & Des. 2 cr.	**CIVE 145** CAD for Civil Eng. 2 cr.	15
Second Year	**Fall**	**ECON 201 or 202** Economics 3 cr.	**MATH 321** Diff. Equations 4 cr.	**PHYS 222+232** Physics II 3+1 cr.	**ME 212** Statics 3 cr.	**CIVE 271** Civil Eng. Meas. 2 cr.	16
	Spring	**H/SS** Elective 4 cr.	**MATH 223** Calculus III 4 cr.	**ME 299[b]** Thermal Analysis 2 cr.	**ME 214** Dynamics 3 cr.	**ME 223** Mech. of Matls. 3 cr.	16
Third Year	**Fall**		**Science Elective[c]** Approved List 4 cr.	**ME 291** Eng. Analysis 3 cr.	**CIVE 321** Fluid Mechanics 3 cr.	**CIVE 370W** Transportation 4 cr.	**CIVE 340** Structural Analysis 3 cr.	17
	Spring	**CMST 102[a]** Public Speaking 3 cr.		**CIVE 4xx or Tech. Elective[c]** 3 cr.	**CIVE 350** Hydra. / Hydro. 4 cr.	**CIVE 360** Geotechnical Eng. 4 cr.	**CIVE 446 or 448** Reinforced Concrete Or Steel Design 3 cr.	17
Fourth Year	**Fall**	**H/SS** Elective 3 cr.	**ME 206** Materials Science 3 cr.	**CIVE 380** Environ. Eng. 3 cr.	**CIVE 401** Civ. Eng. Design I 2 cr.	**CIVE 435** Experimentation I 2 cr.	**CIVE 4xx** CIVE Elective 3 cr.	16
	Spring	**H/SS** Elective 3 cr.	**Tech. Elective** Approved List 2 cr.	**CIVE 4xx** CIVE Elective 3 cr.	**CIVE 402** Civ. Eng. Design II 3 cr.	**CIVE 436** Experimentation II 2 cr.	**CIVE 4xx** CIVE Elective 3 cr.	16

[a]ENG 271 is also acceptable; [b]ME 241 is also acceptable; [c]Science, Technical and CIVE Elective credits must be a minimum of 18.

Revised 17 May 2013