MINNESOTA STATE UNIVERSITY, MANKATO

Civil Engineering Program 2017-2018

First Year	**Fall**	**ENG 101** English Composition 4 cr.	**MATH 121** Calculus I 4 cr.	**CHEM 201** Chemistry I 5 cr.	**CIVE 101** Intro. to Civil Engineering 2 cr. F		15
	Spring	**H/SS Elective** Approved List 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 Engineering 2 cr.	15
Second Year	**Fall**		**MATH 321** Differential Equations 4 cr.	**GEOL 121** Physical Geology 4 cr.	**ME 291** Engineering Analysis 3 cr.	**ME 212** Statics 3 cr.	**CIVE 271** Civil Eng. Measurements 2 cr. F	16
	Spring	**ENGL 271W** Technical Communication 4 cr.	**MATH 223** Calculus III 4 cr.	**ME 299[a]** Thermal Analysis 2 cr. S	**ME 214** Dynamics 3 cr.	**ME 223** Mechanics of Materials 3 cr.	16
Third Year	**Fall**	**ECON 201 or 202** Economics 3 cr.		**CIVE 380** Environmental Engineering 3 cr. F	**CIVE 321** Fluid Mechanics 3 cr. F	**CIVE 370W** Transportation 4 cr. F	**CIVE 340** Structural Analysis 3 cr. F	16
	Spring	**H/SS Elective** Approved List 3 cr.	**CIVE 235** Civil Engineering Materials 3 cr. S		**CIVE 350** Hydraulics and Hydrology 4 cr. S	**CIVE 360** Geotechnical Engineering 4 cr. S	**CIVE 446 or 448** Reinforced Concrete OR Steel Design 3 cr. S	17
Fourth Year	**Fall**	**H/SS Electives** Approved List 3 cr.	**PHYS 222+232 or PHYS 223+233** Physics II or III 3+1 cr.	**CIVE 4xx or Technical Elective[b]** 3 cr.	**CIVE 401W** Civil Eng. Design I 2 cr. F	**CIVE 435** Experimentation I 2 cr. F	**CIVE 4xx** CIVE Elective 3 cr.	17
	Spring	**H/SS Electives** Approved List 3 cr.	**Technical Elective[b]** 2 cr.	**CIVE 4xx** CIVE Elective 3 cr.	**CIVE 402W** Civil Eng. Design II 3 cr. S	**CIVE 436** Experimentation II 2 cr. S	**CIVE 4xx** CIVE Elective 3 cr.	16

[a]ME 241 is also acceptable; [b]Technical and CIVE Elective credits must be a minimum of 14. **Heavy-outlined courses are required for program admission.**
Courses marked F or S are only taught in Fall or Spring, respectively.

Total: 128

Revised February 2017