

**MINNESOTA STATE UNIVERSITY, MANKATO**  
**CIVIL ENGINEERING PROGRAM**  
**2004-2005 (FOUR-YEAR PLAN)**

<b>FRESHMAN FALL</b>		<b>FRESHMAN SPRING</b>	
MATH 121 Calculus I	4	MATH 122 Calculus II	4
CHEM 201 Chemistry I	5	PHYS 221 Physics I	5
ENG 101 English Comp.	4	SPEECH 233 <sup>(1)</sup>	3
CIVE 101 Intro. to Engr.--Civil	2	CIVE 145 Computer Graphics	2
		CIVE 201 Intro. to Pb. Solv. & Des.	2
<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>16</b>
<b>SOPHOMORE FALL</b>		<b>SOPHOMORE SPRING</b>	
MATH 321 Differential Equations	4	MATH 223 Calculus III	4
PHYS 222 Physics II	5	ME/CIVE 214 Dynamics	3
ME/CIVE 212 Statics	3	ME/CIVE 223 Mech. of Materials	3
CIVE 271 CIVE Measurements	2	ME 299 Thermal Analysis <sup>(2)</sup>	2
H/SS Elective	3	H/SS Elective	6
<b>TOTAL</b>	<b>17</b>	<b>TOTAL</b>	<b>16</b>
<b>JUNIOR FALL</b>		<b>JUNIOR SPRING</b>	
EE 230 Circuits I	3	CIVE 350 Hydraulics & Hydrology	4
ME 291 Engineering Analysis	3	CIVE 360 Geotechnical Engr.	4
ME/CIVE 321 Fluid Mechanics	3	CIVE 446/8 Concrete/Steel Design	3
CIVE 340 Structural Mechanics	3	Science Elective <sup>(3,5,6)</sup>	4-5
CIVE 370 Transportation Engr.	4		
<b>TOTAL</b>	<b>16</b>	<b>TOTAL</b>	<b>15-16</b>
<b>SENIOR FALL</b>		<b>SENIOR SPRING</b>	
ME 206 Materials Science	3	CIVE 402 Civil Engr. Design II	3
CIVE 401 Civil Engr. Design I	2	CIVE 436 CIVE Experimentation II	2
CIVE 435 CIVE Experimentation I	2	CIVE 4xx CIVE Elective <sup>(5)</sup>	4-7
CIVE 4xx CIVE Elective <sup>(5)</sup>	3	H/SS Elective	4
Technical Elective <sup>(4,5,6)</sup>	2-4		
H/SS Elective	3		
<b>TOTAL</b>	<b>15-17</b>	<b>TOTAL</b>	<b>13-16</b>

**Total Credits = 128**

- <sup>(1)</sup> Students may, with permission from their advisor, elect to substitute Technical Communications, ENG 271, or SPEECH 102.
- <sup>(2)</sup> Students may elect to substitute Thermodynamic, ME 241.
- <sup>(3)</sup> Science elective must be selected from the approved list which would complement the student's area of interest in civil engineering.
- <sup>(4)</sup> Technical elective must be selected from the approved list which would enhance the student's experience in civil engineering.
- <sup>(5)</sup> The sum of Science, Technical, and CIVE electives must be a minimum of 16 credits: science elective (4-5 credits), technical electives (2-4 credits), and CIVE electives (7-10 credits).
- <sup>(6)</sup> These courses may be taken earlier in the program in consultation with the student's advisor. H/SS courses must be chosen correctly to meet program and the university cultural diversity requirements. Courses should be chosen in consultation with a CIVE academic advisor.

Please visit the Civil Engineering website at [CE.MNSU.EDU](http://CE.MNSU.EDU) for additional information or any program revisions.