

**University of Mississippi**  
**School of Engineering**  
**Department of Civil Engineering**  
**Requirements for the Bachelor of Science Degree in Civil Engineering (BSCE)**  
**Effective Fall 2018** (129 hrs) **Updated 5-22-2018**

Student NAME: \_\_\_\_\_ Student ID: \_\_\_\_\_

Freshman				31	hrs				
Fall		Grade		Spring		Grade			
Writ 101	First-Year Writing I	3	<input type="text"/>	<input type="text"/>	Writ 102	First-Year Writing II	3	<input type="text"/>	<input type="text"/>
Math 261	Calculus I	3	<input type="text"/>	<input type="text"/>	Math 262	Calculus II	3	<input type="text"/>	<input type="text"/>
Chem 105	Chemistry I	3	<input type="text"/>	<input type="text"/>	Phys 211	Physics I	3	<input type="text"/>	<input type="text"/>
Chem 115	Chemistry Lab I	1	<input type="text"/>	<input type="text"/>	Phys 221	Physics Lab I	1	<input type="text"/>	<input type="text"/>
C E 101	Introduction to CE I	1	<input type="text"/>	<input type="text"/>	Csci 251	Programming	3	<input type="text"/>	<input type="text"/>
	SS Elective <sup>1</sup>	3	<input type="text"/>	<input type="text"/>	C E 102	Introduction to CE II	1	<input type="text"/>	<input type="text"/>
			<input type="text"/>	<input type="text"/>		Hum. Elective <sup>1</sup>	3	<input type="text"/>	<input type="text"/>
<b>Total</b>		<b>14</b>			<b>Total</b>		<b>17</b>		
Sophomore				34	hrs				
Fall		Grade		Spring		Grade			
Math 263	Calculus III	3	<input type="text"/>	<input type="text"/>	Math 264	Calculus IV	3	<input type="text"/>	<input type="text"/>
Phys 212	Physics II	3	<input type="text"/>	<input type="text"/>	Math 353	Differential Equations	3	<input type="text"/>	<input type="text"/>
Phys 222	Physics Lab II	1	<input type="text"/>	<input type="text"/>	Engr 312	Mechanics Materials	3	<input type="text"/>	<input type="text"/>
Engr 309	Statics	3	<input type="text"/>	<input type="text"/>	C E 207	Surveying	2	<input type="text"/>	<input type="text"/>
Spch 10X	Speech Elective	3	<input type="text"/>	<input type="text"/>	CE 208	CE Graphics I	1	<input type="text"/>	<input type="text"/>
	FA Elective <sup>1</sup>	3	<input type="text"/>	<input type="text"/>	CE 310	Intro. Structural Mechanics	3	<input type="text"/>	<input type="text"/>
			<input type="text"/>	<input type="text"/>		Hum/FA Elective <sup>1</sup>	3	<input type="text"/>	<input type="text"/>
<b>Total</b>		<b>16</b>			<b>Total</b>		<b>18</b>		
Junior				32	hrs				
Fall		Grade		Spring		Grade			
C E 205	CE Lab I	1	<input type="text"/>	<input type="text"/>	C E 305	CE Lab II	1	<input type="text"/>	<input type="text"/>
C E 311	Structural Analysis	3	<input type="text"/>	<input type="text"/>	C E 315	CE Materials	3	<input type="text"/>	<input type="text"/>
C E 481	Transportation Engr. I	3	<input type="text"/>	<input type="text"/>	C E 413	Steel Design	3	<input type="text"/>	<input type="text"/>
Engr 323	Fluid Mechanics	3	<input type="text"/>	<input type="text"/>	C E 431	Soil Mechanics I	3	<input type="text"/>	<input type="text"/>
C E 412	Concrete Design	3	<input type="text"/>	<input type="text"/>	C E 471	Environmental Engr. I	3	<input type="text"/>	<input type="text"/>
Engr 310	Engineering Analysis I	3	<input type="text"/>	<input type="text"/>	Econ 310	Engineering Economy	3	<input type="text"/>	<input type="text"/>
<b>Total</b>		<b>16</b>			<b>Total</b>		<b>16</b>		
Senior				32	hrs				
Fall		Grade		Spring		Grade			
C E 401	CE Fundamentals	1	<input type="text"/>	<input type="text"/>	C E 417	Construction Mgmt.	3	<input type="text"/>	<input type="text"/>
C E 405	CE Lab III	1	<input type="text"/>	<input type="text"/>	C E 456	CE Design II	3	<input type="text"/>	<input type="text"/>
C E 433	Foundations	3	<input type="text"/>	<input type="text"/>		Basic Science Elective <sup>1,2</sup>	3	<input type="text"/>	<input type="text"/>
C E 455	CE Design I	2	<input type="text"/>	<input type="text"/>		Technical Elective A1 <sup>3</sup>	3	<input type="text"/>	<input type="text"/>
C E 472	Water Resources Engr.	3	<input type="text"/>	<input type="text"/>		Technical Elective A2 <sup>3</sup>	3	<input type="text"/>	<input type="text"/>
Engr 400	Leadership & Profess.	1	<input type="text"/>	<input type="text"/>				<input type="text"/>	<input type="text"/>
	Technical Elective B1 <sup>3</sup>	3	<input type="text"/>	<input type="text"/>				<input type="text"/>	<input type="text"/>
	Technical Elective B2 <sup>3</sup>	3	<input type="text"/>	<input type="text"/>				<input type="text"/>	<input type="text"/>
<b>Total</b>		<b>17</b>			<b>Total</b>		<b>15</b>		

An anchor means a course is only taught in the designated Fall/Spring semester.

Symbols Registered   
 In progress   
 Completed

<sup>1</sup>See Page 2 for further information.

<sup>2</sup>Can switch time slot with a SS/H/FA elective

<sup>3</sup>See Page 2 for further information.

General Education Electives (SS/Hum/Fine Art Requirements)						Page 2 of 3
SS	ECON 310	3		Hum: Humanities Elective	3	
SS	Social Sci. Elective	3		FA: Fine Arts Elective	3	
Spch	Speech Elective	3		Hum/FA Elective	3	
<b>Social Sci:</b> Anthropology, Economics, Political Science, Psychology, Sociology						
<b>Humanities:</b> Classics, English Literature, Gender Studies, African-American Studies, Southern Studies, History, Languages, Philosophy, Religion						
<b>Fine Arts:</b> <i>History, appreciation and criticism of art, dance, music, or theater arts</i> (Advisor Note: courses emphasizing the enhancement of skills and performance are NOT acceptable)						
Speech Electives (Advisor Note: Recommend Spch 105)						
Spch 105	Business Prof Speech	3	Spch 102	Fund of Public Speaking	3	
Basic Science Electives						
Geol 101	Physical Geology	3	Geol 105	Env Geology-Resources	3	
Geol 102	Historical Geology	3	Bisc 102	Inq Life: Human Biology	3	
Geol 103	Earth Dynamics	5	Bisc 104	Inq Life: Environment	3	
Geol 104	Env Geology-Hazards	3	Bisc 160/161	Biol Sci I + Lab	4	
Technical Electives						
List A: (At least two courses from this list)						
C E 414	Adv. Concrete Design	3	C E 514	Prestressed Concrete	3	
C E 495	Geospatial Analysis	3	C E 435	Adv. Geotechnical Engineering	3	
C E 572	Stormwater Engr & Mgmt	3				
List B: (No more than two courses from this list)						
Category B.I: Any course from List A						
Category B.II: Any course from Category B.II list:						
C E 511	Structural Dynamics	3	C E 521	Adv. Mech of Materials	3	
Engr 555	Field Test Ins Geotech Eng	3	C E 531	Soil Mechanics II	3	
C E 585	Highway Pavement	3	C E 570	Infrastructure Management	3	
C E 590	Airport Planning Design	3	C E 581	Transportation Eng II	3	
Engr 573	Environ Remediation	3	Engr 571	Serv Learn in Water Treat	3	
G E 440	Rock Mechanics	3	G E 450	Hydrogeology	3	
Engr 591	Engineering Analysis I	3	Engr 593	Approximate Methods	3	
Engr 321	Thermodynamics	3	Engr 360	Electric Circuits	3	
Category B.III: No more than one course from the approved list of the Business minor such as Accy 201, GB 350 .etc						
Category B.IV: Other courses may be used to fulfill the list B requirements, with the approval of the advisor and the Department Chair, including any relevant independent study course (Example: Hon 401, C Op 301, C OP 302, CE 497, Engr 596, Engr 597 & Engr 598).						

**Course Substitution and Justification (Subject to review and approval by Department Chair)**

Course in program	Substitution	Justification	Advisor Signature	Date

# CE Pre-Requisites & Co-requisite Sequences Work-Sheet

	Course	Pre-Requisite	Co-Requisite
<b>Freshman Year</b>	Writ 101: First-Year Writing I	–	–
	Chem 105: General Chemistry I	Math ACT 25, or B in Chem 101, or B in Math 121 &123, or B Math 125	–
	Chem 115: General Chemistry Lab I	Math ACT 25, or B in Chem 101, or B in Math 121 &123, or B Math 125	Chem 105
	Math 261: Calculus I	Math ACT 24, or B in Math 121&123, or B in Math 125	–
	C E 101: Introduction to C E I	–	–
	Writ 102: First-Year writing II	Writ 101	–
	Phys 211: Physics I	–	Phys 221, Math 262
	Phys 221: Physics Lab I	–	Phys 211
	Math 262: Calculus II	Math 261 (grade C or above)	–
	Csci 251: Programming	–	Math 261
C E 102: Introduction to C E II	–	–	
<b>Sophomore Year</b>	Math 263: Calculus III	Math 262 (grade C or above)	–
	Phys 212: Physics II	Phys 211	Phys 222, Math 262
	Phys 222: Physics Lab II	Phys 221	Phys 212
	Engr 309: Statics	–	Math 263, Phys 211
	Math 264: Calculus IV	Math 263 (grade C or above)	–
	Math 353: Differential Equations	–	Math 264
	Engr 312: Mechanics of Materials	Engr 309	–
	CE 208: CE Graphics I	–	CE 207
	C E 207: Surveying	–	Engr 207 or CE 208
	CE 310: Structural Mechanics	Engr 309	–
<b>Junior Year</b>	C E 205: C E Lab I	–	Engr 312, Engr 323
	C E 311: Structural Analysis	Engr 312, CE 310	–
	C E 481: Transportation Eng I	CE 207	Math 353
	Engr 323: Fluid Mechanics	Phys 211	Math 264, Engr 309
	C E 412: Concrete Design	–	CE 311
	Engr 310: Engineering Analysis I	Math 262	–
	C E 305: CE Lab II	–	C E 431
	C E 315: CE Materials	–	C E 431
	C E 413: Steel Design	C E 311	–
	C E 431: Soil Mechanics I	Engr 312	–
C E 471: Environmental Engr I	Chem 105 & Chem 115; Engr 322 or Engr 323	–	
Econ 310: Engineering Economy	–	–	
<b>Senior Year</b>	C E 401: CE Fundamentals	Senior standing in CE	CE 455
	C E 405: CE Lab III	–	CE 472, CE 471, CE 315, CE 205
	C E 433: Foundations	C E 431	–
	C E 455: CE Design I	–	CE 481, CE 472, CE 433, CE 412
	C E 472: Water Resources Eng	–	Engr 323
	Engr 400: Leadership & Profess.	–	–
	C E 417: Construction Mgmt	C E 315	–
	C E 456: CE Design II	C E 455	–