

## B.S.Ch.E. in Chemical Engineering

**Overview** 

**Degree Requirements** 

## **Degree Requirements**

The academic regulations for this degree program, as entered in the University of Mississippi Catalog, are in effect for the current or selected academic year and semester. The University of Mississippi reserves the right to 1) change or withdraw courses; 2) change rules for registration, instruction, and graduation; and 3) change other regulations affecting the student body at any time.

## B.S.Ch.E. in Chemical Engineering General Education

REQUIREMENT	HOURS	DESCRIPTION			
First Year Writing I	3	Complete Hon 101, Writ 100 or Writ 101 with a passing grade.			
First Year Writing II	3	Complete Hon 102, Liba 102, or Writ 102 with a passing grade.			
<u>Chem 105</u>	3	Complete Chem 105 with a passing grade.			
<u>Chem 106</u>	3	Complete Chem 106 with a passing grade.			
<u>Chem 115</u>	1	Complete Chem 115 with a passing grade.			
<u>Chem 116</u>	1	Complete Chem 116 with a passing grade.			
Math 261	3	Complete Math 261 with a passing grade.			
Math 262	3	Complete Math 262 with a passing grade.			
Math 263	3	Complete Math 263 with a passing grade.			
Math 264	3	Complete Math 264 with a passing grade.			
Math 353	3	Complete Math 353 with a passing grade.			
Phys 211	3	Complete Phys 211 with a passing grade.			
Phys 212	3	Complete Phys 212 with a passing grade.			
Phys 221	1	Complete Phys 221 with a passing grade.			
Phys 222	1	Complete Phys 222 with a passing grade.			
3 hrs fine arts	3	Student must successfully complete 3 hours in the fine arts. The course may be chosen from art history, art appreciation, and criticism of art, dance, music, and theatre arts. Courses emphasizing the enhancement of skills a performance are not acceptable.			
Serial humanities	6	Complete 6 hrs (from the same department) of humanities choosing from course work in classics, literature, history, philosophy, religion, Southern Studies, African American Studies, and Gender Studies.			
Serial social science	6	Complete 6 hours (from the same department) of social sciences choosing from the following; economics, anthropology, political science, psychology, and sociology. Psy 202 and Econ 230 are excluded from these options.			
Add'l 300+ level hum/soc sci	12	Complete an additional 3 hours of advanced course work (300 level or above) in the area selected for the humanities or social sciences.			

## Major Requirements

REQUIREMENT	HOURS	DESCRIPTION
Ch E 103/104 or approved course	2	Complete <u>Ch E 103</u> and <u>Ch E 104</u> . As an alternative, students may complete one one of the following courses: Engr 100, <u>Manf 150</u> or <u>Manf 252</u> . Coursework must be completed with a passing grade.
<u>Ch E 307</u>	2	Complete <u>Ch E 307</u> with a passing grade.
<u>Ch E 308</u>	2	Complete Ch E 308 with a passing grade.
<u>Ch E 317</u>	3	Complete Ch E 317 with a passing grade.
<u>Ch E 345</u>	3	Complete Ch E 345 with a passing grade.
<u>Ch E 411</u>	1	Complete Ch E 411 with a passing grade.
<u>Ch E 417</u>	3	Complete Ch E 417 with a passing grade.
<u>Ch E 421</u>	3	Complete Ch E 421 with a passing grade.

The University of Mississippi is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award certificates and baccalaureate, master's, specialist, and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, call 404-679-4500, or visit online at www.sacscoc.org for questions about the accreditation.





Chi 423     3     Complete Chi £ 423 with a passing grade.       Chi £ 445     2     Complete Chi £ 423 with a passing grade.       Chi £ 445     2     Complete Chi £ 425 with a passing grade.       Chi £ 446     2     Complete Chi £ 425 with a passing grade.       Chi £ 447     3     Complete Chi £ 427 with a passing grade.       Chi £ 432     3     Complete Chi £ 427 with a passing grade.       Chi £ 432     3     Complete Chi £ 457 with a passing grade.       Chi £ 432     4     Complete Chi £ 457 with a passing grade.       Chi £ 437     4     Complete Chi £ 457 with a passing grade.       Chi £ 437     4     Complete Chi £ 458 with a passing grade.       Chi £ 437     4     Complete Chi £ 457 with a passing grade.       Chi £ 437     4     Complete Chi £ 427 with a passing grade.       Chi £ 437     3     Complete Chi £ 227 with a passing grade.       Chi £ 437     3     Complete Chi £ 312 with a passing grade.       Chi £ 321     3     Complete Eng 312 with a passing grade.       Chi £ 321     3     Complete Eng 312 with a passing grade.       Eng 310     3     Complete Eng 312 with a passing grade.       Eng 322     3     Complete Eng 312 with a passing grade.       Eng 323     3     Complete Eng 312 with a passing grade.       Eng 324	REQUIREMENT	ł	IOURS	DESC	RIPTION		
Ch E 445       2       Complete Ch E 445 with a passing grade.         Ch E 445       2       Complete Ch E 449 with a passing grade.         Ch E 445       4       Complete Ch E 449 with a passing grade.         Ch E 445       4       Complete Ch E 449 with a passing grade.         Ch E 445       3       Complete Ch E 11 with a passing grade.         Ch E 415       3       Complete Ch E 11 with a passing grade.         Errol In a BSChE emphasis       Errol In an emphasis in BSChE program.         School of Engineering CPA       4       Complete Chem 225 with a passing grade.         Chem 225       1       Complete Chem 222 with a passing grade.         Chem 221       3       Complete Chem 222 with a passing grade.         Chem 221       3       Complete Chem 222 with a passing grade.         Engr 310       3       Complete Engr 312 with a passing grade.         Engr 321       3       Complete Engr 312 with a passing grade.         Engr 322       3       Complete Engr 322 with a passing grade.         Engr 323       3       Complete Engr 322 with a passing grade.         Engr 324       3       Complete Engr 322 with a passing grade.         Engr 329       3       Complete Engr 322 with a passing grade.         Engr 329       S       Comp							
ChE 446     2     Complete ChE 448 with a passing grade.       ChE 451     4     Complete ChE 448 with a passing grade.       ChE 451     4     Complete ChE 452 with a passing grade.       ChE 451     3     Complete ChE 452 with a passing grade.       ChE 151     3     Complete ChE 152 with a passing grade.       ChE 151     3     Complete ChE 152 with a passing grade.       Che 151     3     Complete ChE 152 with a passing grade.       Che 151     3     Complete ChE 152 with a passing grade.       Che 151     1     Complete ChE 152 with a passing grade.       School of Engineering GPA     1     Complete ChE 122 with a passing grade.       Chem 252     1     Complete ChE 122 with a passing grade.       Chem 252     1     Complete ChE 122 with a passing grade.       Chem 251     3     Complete ChE 123 With a passing grade.       Engr 310     3     Complete Engr 312 with a passing grade.       Engr 321     3     Complete Engr 321 with a passing grade.       Engr 322     3     Complete Engr 322 with a passing grade.       Engr 324     3     Complete Engr 322 with a passing grade.       Engr 329     5     Complete Engr 322 with a passing grade.       Engr 329     5     Complete Engr 322 with a passing grade.       Engr 320     5     C							
ChE 451       4       Complete ChE 451 with a passing grade.         ChE 452 or ChE 460/461       3       Complete ChE 451 with a passing grade.         Enroll in a BSChE emphasis       Enroll in an emphasis in BSChE program.         School of Engineering GPA       Must be at least a 2.0         Major Requirements II       Must be at least a 2.0         Major Requirements II       Enroll in an emphasis in BSChE program.         REQUIREMENT       HOURS       DESCRIPTION         Chem 222       3       Complete Chem 224 with a passing grade.         Chem 221       3       Complete Chem 224 with a passing grade.         Engr 310       S       Complete Chem 224 with a passing grade.         Engr 313       3       Complete Chem 231 with a passing grade.         Engr 321       3       Complete Chem 232 with a passing grade.         Engr 322       3       Complete Engr 312 with a passing grade.         Engr 323       3       Complete Engr 321 with a passing grade.         Engr 324       3       Complete Engr 321 with a passing grade.         Engr 329       3       Complete Engr 322 with a passing grade.         Engr 329       3       Complete Engr 322 with a passing grade.         Engr 329       Grad 251       3       Complete Angr 322 with a passing grade.							
Ch E 452 or Ch E 460/461       3       Complete either Ch E 452 or Ch E 460/461 with a passing grade.         Ch E 451       3       Complete Ch E 511 with a passing grade.         Ernoll in a BSChE emphasis       Ernoll in an emphasis in BSChE program.         School of Engineering GPA       Must be at least a 2.0         Major Requirements II       Complete Chem 225 with a passing grade.         Chem 225       1       Complete Chem 225 with a passing grade.         Chem 221       3       Complete Chem 221 with a passing grade.         Engr 310       5       Complete Engr 310 with a passing grade.         Engr 311       3       Complete Engr 310 with a passing grade.         Engr 321       3       Complete Engr 310 with a passing grade.         Engr 321       3       Complete Engr 310 with a passing grade.         Engr 322       3       Complete Engr 321 with a passing grade.         Engr 322       3       Complete Engr 322 with a passing grade.         Engr 320       5       Complete Engr 322 with a passing grade.         Engr 320       5       Complete Engr 322 with a passing grade.         Engr 322       3       Complete Engr 322 with a passing grade.         Engr 323       5       Complete Engr 322 with a passing grade.         Engr 320 or Csci 251       5 <td></td> <td></td> <td></td> <td colspan="4"></td>							
Che Est1       3       Complete ChE Est1 with a passing grade.         Enroll in a BSChE emphasis       Enroll in an emphasis in BSChE program.         School of Engineering GPA       Image: Must be at least a 2.0         Major Requirements I       HOURS       DESCRIPTION         REQUIREMENT       HOURS       DESCRIPTION         Chem 222       3       Complete Chem 225 with a passing grade.         Chem 221       3       Complete Chem 221 with a passing grade.         Engr 310       3       Complete Engr 310 with a passing grade.         Engr 311       3       Complete Engr 310 with a passing grade.         Engr 322       3       Complete Engr 310 with a passing grade.         Engr 321       3       Complete Engr 310 with a passing grade.         Engr 322       3       Complete Engr 302 with a passing grade.         Engr 322       3       Complete Engr 302 with a passing grade.         Engr 302       3       Complete Engr 302 with a passing grade.         Engr 302       3       Complete Engr 302 with a passing grade.         Engr 302       3       Complete Engr 302 with a passing grade.         Engr 302       3       Complete Engr 302 with a passing grade.         Engr 302       5       Complete Engr 302 with a passing grade.      <							
Erroll in a BSChE emphasis     Enroll in an emphasis in BSChE program.       School of Engineering GPA     Must be at least a 2.0       Major Requirements II     FROURS     DESCRIPTION       REQUIREMENT     HOURS     DESCRIPTION       Chem 222     3     Complete Chem 225 with a passing grade.       Chem 221     3     Complete Chem 221 with a passing grade.       Engr 310     3     Complete Engr 310 with a passing grade.       Engr 311     3     Complete Engr 321 with a passing grade.       Engr 322     3     Complete Engr 321 with a passing grade.       Engr 321     3     Complete Engr 320 with a passing grade.       Engr 322     3     Complete Engr 322 with a passing grade.       Engr 322     3     Complete Engr 322 with a passing grade.       Engr 322     3     Complete Engr 322 with a passing grade.       Engr 322     3     Complete Engr 322 with a passing grade.       Engr 322     3     Complete Engr 322 with a passing grade.       Engr 322     3     Complete Engr 322 with a passing grade.       Engr 329     3     Complete Engr 320 with a passing grade.       Engr 320     3     Complete Engr 320 with a passing grade.       Engr 320     3     Complete Engr 320 with a passing grade.       Engr 321     3     Complete Engr 320 with a passing grade.							
School of Engineering GPA     Must be at least a 2.0       Major Requirements II     FROUREMENT     HOURS     DESCRIPTION       Chem 225     1     Complete Chem 225 with a passing grade.     Complete Chem 222 with a passing grade.       Chem 221     3     Complete Chem 221 with a passing grade.       Engr 310     3     Complete Chem 221 with a passing grade.       Engr 311     3     Complete Engr 310 with a passing grade.       Engr 321     3     Complete Engr 313 with a passing grade.       Engr 321     3     Complete Engr 321 with a passing grade.       Engr 322     3     Complete Engr 322 with a passing grade.       Engr 322     3     Complete Engr 322 with a passing grade.       Engr 322     3     Complete Engr 320 or Csci 251 with a passing grade.       Engr 322     3     Complete Engr 320 or Csci 251 with a passing grade.       Engr 322     3     Complete Engr 320 or Csci 251 with a passing grade.       Standard Obtion     Complete at least one advanced chemistry course. Course can be chosen from the following: Chem 334, Chem 471, E543 with a passing grade.       Emphasis - Materials     Complete at least 0 credit hours of technical electives to include three 3-hour electives of 300 or higher course number from amogr engineering, science, or mathematics.       Emphasis - Materials     Complete Engr 312 with a passing grade.       Engr 312     3     Complete En							
Major Requirements II       HOURS       DESCRIPTION         REQUIREMENT       HOURS       Complete Chem 225 with a passing grade.         Chem 222       3       Complete Chem 222 with a passing grade.         Chem 221       3       Complete Chem 221 with a passing grade.         Engr 310       3       Complete Engr 310 with a passing grade.         Engr 313       3       Complete Engr 311 with a passing grade.         Engr 321       3       Complete Engr 321 with a passing grade.         Engr 322       3       Complete Engr 322 with a passing grade.         Engr 322       3       Complete Engr 322 with a passing grade.         Engr 302       3       Complete Engr 302 or Csci 251         3       Complete Engr 302 or Csci 251       3         Standard Option       REQUIREMENT       HOURS         REQUREMENT       HOURS       DESCRIPTION         Advanced chemistry course       3       Complete at least one advanced chemistry course. Course can be chosen from the following: Chem 324, Chem 421, E543, Che E45, GE 503, and Engr 540.         9 hrs technical electives       9       Complete Engr 312 with a passing grade.         Engr 312       3       Complete at least on eath hours of technical electives to include three 3-hour electives of 300 or higher course number from among engineering, science, or mathematical.	•						
REQUIREMENTHOURSDESCRIPTIONChem 2251Complete Chem 225 with a passing grade.Chem 2223Complete Chem 222 with a passing grade.Chem 2213Complete Chem 221 with a passing grade.Engr 3103Complete Engr 310 with a passing grade.Engr 3133Complete Engr 322 with a passing grade.Engr 3213Complete Engr 322 with a passing grade.Engr 3223Complete Engr 322 with a passing grade.Engr 3223Complete Engr 322 with a passing grade.Engr 3243Complete Engr 322 with a passing grade.Engr 3253Complete Engr 322 with a passing grade.Engr 3263Complete Engr 322 with a passing grade.Engr 329 or Casel 2513Complete Engr 322 with a passing grade.Standard Option3Complete at least one advanced chemistry course. Course can be chosen from the following: Chem 334, Chem 471, E.543, Ch.E.545, CE 503, and Engr 540.Advanced chemistry course3Complete at least one advanced chemistry course. Course can be chosen from the following: Chem 334, Chem 471, E.543, Ch.E.545, CE 503, and Engr 540.Emphasis - MateriateDDERCUREMENTHOURSDBCSCRIPTIONAdvanced chemistry course3Complete Engr 312 with a passing grade.Engr 3123Complete Chem 53				maarb			
Chem 22       3       Complete Chem 222 with a passing grade.         Chem 221       3       Complete Chem 221 with a passing grade.         Engr 310       3       Complete Engr 310 with a passing grade.         Engr 313       3       Complete Engr 321 with a passing grade.         Engr 321       3       Complete Engr 322 with a passing grade.         Engr 322       3       Complete Engr 322 with a passing grade.         Engr 322       3       Complete Engr 322 with a passing grade.         Engr 322       3       Complete Engr 322 with a passing grade.         Engr 322       3       Complete Engr 322 with a passing grade.         Standard Option       Tomplete Engr 322 with a passing grade.       Standard Option         REQUIREMENT       HOURS       DESCRIPTION       Complete a teast one advanced chemistry course. Course can be chosen from the following: Chem 334, Chem 471, E 543, Che 545, GE 503, and Engr 549.         9 hrs technical electives       9       Complete a teast one advanced chemistry course. Course can be chosen from the following: Chem 334, Chem 471, E 543, Che 545, GE 503, and Engr 549.         Engr 312       3       Complete a teast one advanced chemistry course.       Course can be chosen from the following: Chem 334, Chem 471, E 543, Che 545, GE 503, and Engr 549.         Engr 312       3       Complete a teast one advanced chemistry course.       Course ca	· ·		HOUR	S	DESCRIPTION		
Chem 221       3       Complete Chem 221 with a passing grade.         Engr 310       3       Complete Engr 310 with a passing grade.         Engr 313       3       Complete Engr 313 with a passing grade.         Engr 321       3       Complete Engr 312 with a passing grade.         Engr 322       3       Complete Engr 322 with a passing grade.         Engr 302       3       Complete Engr 302 with a passing grade.         Engr 302       3       Complete Engr 302 with a passing grade.         Engr 302 or Csci 251       3       Complete Engr 302 or Csci 251 with a passing grade.         Standard Option       REQUIREMENT       HOURS       DESCRIPTION         Advanced chemistry course       3       Complete at least one advanced chemistry course. Course can be chosen from the following: Chem 334, Chem 471, E 643, Ch E 645, GE 503, and Engr 540.         9 hrs technical electives       9       Complete at least one advanced ohemistry course. Course can be chosen from the following: Chem 334, Chem 471, E 643, Ch E 645, GE 503, and Engr 540.         Phansis - Materials       Percentals       Complete at least one advanced ohemistry course.         REQUIREMENT       HOURS       DESCRIPTION         Che 645       3       Complete at least one materials electives to include three 3-hour electives of 300 or higher course number from among engineering, science, or mathematics.	<u>Chem 225</u>		1		Complete <u>Chem 225</u> with a passing grade.		
Engr. 310       3       Complete Engr. 310 with a passing grade.         Engr. 313       3       Complete Engr. 313 with a passing grade.         Engr. 321       3       Complete Engr. 313 with a passing grade.         Engr. 322       3       Complete Engr. 322 with a passing grade.         Engr. 302       3       Complete Engr. 322 with a passing grade.         Engr. 302       3       Complete Engr. 302 with a passing grade.         Engr. 309 or Csci 251       3       Complete Engr. 302 or Csci 251 with a passing grade.         Standard Option       REQUIREMENT       HOURS       DESCRIPTION         Advanced chemistry course       3       Complete at least one advanced chemistry course. Course can be chosen from the following: Chem. 334, Chem. 471, E.543, Ch. E.545, GE 503, and Engr. 540.         9 hrs technical electives       9       Complete at least one advanced chemistry course. Course can be chosen from the following: Chem. 334, Chem. 471, E.543, Ch. E.545, GE 503, and Engr. 540.         9 hrs technical electives       9       Complete at least one advanced othemistry course. Course can be chosen from the following: Chem. 334, Chem. 471, E.543, Ch. E.545, GE 503, and Engr. 540.         Ch. E.545       3       Complete at least one advanced othemistry course. Course can be chosen from the following: Chem. 334, Chem. 471, E.543, Ch. E.545, GE 503, and Engr. 540.         Ch. E.545       3       Complete at least one materials electi	<u>Chem 222</u>		3		Complete Chem 222 with a passing grade.		
Interference of the term of term	<u>Chem 221</u>						
Interfact with a passing grade.Engr.3213Complete Engr.321 with a passing grade.Engr.3023Complete Engr.322 with a passing grade.Engr.3023Complete Engr.302 with a passing grade.Engr.302 or Csci.2513Complete either Engr.309 or Csci.251 with a passing grade.Standard OptionREQUIREMENTHOURSDESCRIPTIONAdvanced chemistry course3Complete at least one advanced chemistry course. Course can be chosen from the following: Chem.334, Chem.471, E.543, Ch. E.545, G.E.503, and Engr.540.9 hrs technical electives9Complete at least 9 credit hours of technical electives to include three 3-hour electives of 300 or higher course number from among engineering, science, or mathematics.Emphasis - MaterialsESCRIPTIONCh.E.5453Complete Engr.312 with a passing grade.Engr.3123Complete at least one materials elective chosen from the following courses: Ch.E.543, ME.527, ME.528, ME.530, ME.531, ME.532, ME/EL.E.533.Tech elective or Ch.E.3303Complete at least one materials elective chosen from the following courses: Ch.E.543, ME.527, ME.528, ME.530, ME.531, ME.532, ME/EL.E.533.Tech elective or Ch.E.3303Complete at least one there is a passing grade.Emphasis - Biotectrology3Complete Ch.E.540 with a passing grade.Chem.334.SComplete Ch.E.520 with a passing grade.Chem.334.3Complete Ch.E.533 with a passing grade.Chem.334.3Complete Ch.E.534 with a passing grade.Chem.334.3Complete Ch.E.533 w	Engr 310		3		Complete Engr 310 with a passing grade.		
Engr.322       3       Complete Engr.322 with a passing grade.         Engr.362       3       Complete Engr.362 with a passing grade.         Engr.309 or Csci 251       3       Complete either Engr.309 or Csci 251 with a passing grade.         Standard Option       REQUIREMENT       HOURS       DESCRIPTION         Advanced chemistry course       3       Complete at least one advanced chemistry course. Course can be chosen from the following: Chem.334, Chem.471, E.543, Ch. E.545, GE 503, and Engr.540.         9 hrs technical electives       9       Complete at least 0 credit hours of technical electives to include three 3-hour electives of 300 or higher course number from among engineering, science, or mathematics.         Emphasis - Materials       ESCRIPTION         Che E.545       3       Complete Engr.312 with a passing grade.         Engr.312       3       Complete Engr.312 with a passing grade.         Materials elective       3       Complete a teast one materials elective chosen from the following courses: Ch E 543, ME 527, ME 528, ME 530, ME 531, ME 532, ME/EL E 533.         Tech elective or Ch E.330       3       Complete a technical elective or Ch E 330.         Emphasis - Biotechnology       ESCRIPTION         Che E.520       3       Complete Ch E 520 with a passing grade.         Chen 334       3       Complete Chen 334 with a passing grade.         Chen 334	Engr 313		3		Complete Engr 313 with a passing grade.		
Engr.362       3       Complete Engr.362 with a passing grade.         Engr.309 or Csci 251       3       Complete either Engr.309 or Csci 251 with a passing grade.         Standard Option       Engr.309 or Csci 251       3       Complete either Engr.309 or Csci 251 with a passing grade.         Advanced chemistry course       3       Complete at least one advanced chemistry course. Course can be chosen from the following: Chem.334, Chem.471, E543, Ch E 545, GE 503, and Engr.540.         9 hrs technical electives       9       Complete at least 9 credit hours of technical electives to include three 3-hour electives of 300 or higher course number from among engineering, science, or mathematics.         Emphasis - Materials       ESCRIPTION         Che E 545       3       Complete ch E 545 with a passing grade.         Engr.312       3       Complete at least one materials elective chosen from the following courses: Ch E 543, ME 527, ME 528, ME 530, ME 531, ME 532, ME/EL E 533.         Tech elective or Ch E 330       3       Complete at least one materials elective chosen from the following courses: Ch E 543, ME 527, ME 528, ME 530, ME 531, ME 532, ME/EL E 533.         Tech elective or Ch E 330       3       Complete at least one the following courses: Ch E 543, ME 527, ME 528, ME 530, ME 531, ME 532, ME/EL E 533.         Tech elective or Ch E 330       3       Complete at least one materials elective or Ch E R&D Experience (ChE 330).         Emphasis - Biotectorolocyt       3       Complet	Engr 321				Complete Engr 321 with a passing grade.		
Engr 309 or Csci 251       3       Complete either Engr 309 or Csci 251 with a passing grade.         Standard Option       Engr 309 or Csci 251 with a passing grade.         REQUIREMENT       HOURS       DESCRIPTION         Advanced chemistry course       3       Complete at least one advanced chemistry course. Course can be chosen from the following: Chem 334, Chem 471, E 543, Ch E 545, GE 503, and Engr 540.         9 hrs technical electives       9       Complete at least 9 credit hours of technical electives to include three 3-hour electives of 300 or higher course number from among engineering, science, or mathematics.         Emphasis - Materials       ESCRIPTION         Che 545       3       Complete Che E545 with a passing grade.         Engr 312       3       Complete at least one materials elective chosen from the following courses: Ch E 543, ME 527, ME 528, ME 530, ME 531, ME 532, ME/EL E 533.         Tech elective or Che 330       3       Complete at least one materials elective or Che R&D Experience (Che 330).         Emphasis - Biotechnolocy       REQUIREMENT       HOURS       DESCRIPTION         REQUIREMENT       HOURS       DESCRIPTION       Complete at least one materials elective chosen from the following courses: Che 543, ME 527, ME 528, ME 530, ME 531, ME 532, ME/EL E 533.         Tech elective or Che 330       3       Complete at least one Che R&D Experience (Che 330).         Emphasis - Biotechnolocy       REQUIREMENT <td< td=""><td>Engr 322</td><td></td><td colspan="2">3</td><td>Complete Engr 322 with a passing grade.</td></td<>	Engr 322		3		Complete Engr 322 with a passing grade.		
Standard Option       HOURS       DESCRIPTION         Advanced chemistry course       3       Complete at least one advanced chemistry course. Course can be chosen from the following: Chem 334, Chem 471, E543, Ch E 545, GE 503, and Engr 540.         9 hrs technical electives       9       Complete at least 9 credit hours of technical electives to include three 3-hour electives of 300 or higher course number from among engineering, science, or mathematics.         Emphasis - Materials       Escription         REQUIREMENT       HOURS       DESCRIPTION         Ch E 545       3       Complete ch E 545 with a passing grade.         Engr 312       3       Complete at least one materials elective chosen from the following courses: Ch E 543, ME 527, ME 528, ME 530, ME 531, ME 532, ME/EL E 533.         Tech elective or Ch E 330       3       Complete a technical elective or ChE R&D Experience (ChE 330).         Emphasis - Biotechnology       REQUIREMENT       HOURS       DESCRIPTION         REQUIREMENT       HOURS       DESCRIPTION       Complete at least one materials elective chosen from the following courses: Ch E 543, ME 527, ME 528, ME 530, ME 531, ME 532, ME/EL E 533.         Tech elective or Ch E 330       3       Complete a technical elective or ChE R&D Experience (ChE 330).         Emphasis - Biotechnology       REQUIREMENT       HOURS       DESCRIPTION         Che 520       3       Complete Che 520 with a passing grade.	Engr 362				Complete Engr 362 with a passing grade.		
REQUIREMENTHOURSDESCRIPTIONAdvanced chemistry course3Complete at least one advanced chemistry course. Course can be chosen from the following: Chem 334, Chem 471, E 543, Ch E 545, GE 503, and Engr 540.9 hrs technical electives9Complete at least 9 credit hours of technical electives to include three 3-hour electives of 300 or higher course number from among engineering, science, or mathematics.Emphasis - MaterialsFormation and engineering, science, or mathematics.REQUIREMENTHOURSDESCRIPTIONCh E 5453Complete Che 545 with a passing grade.Engr 3123Complete Engr 312 with a passing grade.Materials elective3Complete at least one materials elective chosen from the following courses: Ch E 543, ME 527, ME 528, ME 530, ME 531, ME 532, ME/EL E 533.Tech elective or Ch E 3303Complete at least one chosen from the following grade.EQUIREMENTHOURSDESCRIPTIONCh E 5203Complete Chi E 542 with a passing grade.EQUIREMENTHOURSDESCRIPTIONCh E 5203Complete Chi E 520 with a passing grade.Chem 3343Complete Chi E 520 with a passing grade.Chem 3343Complete Chi E 520 with a passing grade.Phar 3313Complete Plar 331 with a passing grade.	Engr 309 or <u>Csci 251</u>	3			Complete either Engr 309 or Csci 251 with a passing grade.		
Advanced chemistry course       3       Complete at least one advanced chemistry course. Course can be chosen from the following: Chem 334, Chem 471, E 543, Ch E 545, GE 503, and Engr 540.         9 hrs technical electives       9       Complete at least 9 credit hours of technical electives to include three 3-hour electives of 300 or higher course number from among engineering, science, or mathematics.         Emphasis - Materials       HOURS       DESCRIPTION         Che 545       3       Complete che 545 with a passing grade.         Engr 312       3       Complete at least one materials elective chosen from the following courses: Che 543, ME 527, ME 528, ME 530, ME 531, ME 532, ME/EL E 533.         Tech elective or Ch E 330       3       Complete at elective or Che R&D Experience (ChE 330).         Emphasis - Biotectrology       3       Complete at elective or Che R&D Experience (ChE 330).         Engr 312       3       Complete at elective or Che R&D Experience (ChE 330).         Tech elective or Ch E 330       3       Complete at elective or Che R&D Experience (ChE 330).         Emphasis - Biotectrology       3       Complete Che E520 with a passing grade.         Chem 334       3       Complete Che E320 with a passing grade.         Chem 334       3       Complete Che E320 with a passing grade.         Phar 331       3       Complete Che E320 with a passing grade.	Standard Option						
Image: Provide an end of the end of	REQUIREMENT	HOUR	S DES	CRIPTIC	N		
from among engineering, science, or mathematics.       Emphasis - Materials       REQUIREMENT     HOURS     DESCRIPTION       Ch E 545     3     Complete Ch E 545 with a passing grade.       Engr 312     3     Complete Engr 312 with a passing grade.       Materials elective     3     Complete at least one materials elective chosen from the following courses: Ch E 543, ME 527, ME 528, ME 530, ME 531, ME 532, ME/EL E 533.       Tech elective or Ch E 330     3     Complete a technical elective or ChE R&D Experience (ChE 330).       Emphasis - Biotectrology     Pours     DESCRIPTION       Ch E 520     3     Complete Ch E 520 with a passing grade.       Chem 334     3     Complete Chem 334 with a passing grade.       Phar 331     3     Complete Phar 331 with a passing grade.	Advanced chemistry course	3					
REQUIREMENTHOURSDESCRIPTIONCh E 5453Complete Ch E 545 with a passing grade.Engr 3123Complete Engr 312 with a passing grade.Materials elective3Complete at least one materials elective chosen from the following courses: Ch E 543, ME 527, ME 528, ME 530, ME 531, ME 532, ME/EL E 533.Tech elective or Ch E 3303Complete a technical elective or ChE R&D Experience (ChE 330).Emphasis - BiotechnologyHOURSDESCRIPTIONCh E 5203Complete Ch E 520 with a passing grade.Chem 334.3Complete Chem 334 with a passing grade.Phar 331Net stateStateStateState.StateState.State<	9 hrs technical electives	9					
Ch E 5453Complete Ch E 545 with a passing grade.Engr 3123Complete Engr 312 with a passing grade.Materials elective3Complete at least one materials elective chosen from the following courses: Ch E 543, ME 527, ME 528, ME 530, ME 531, ME 532, ME/EL E 533.Tech elective or Ch E 3303Complete a technical elective or Ch E & DEscription (Ch E 330).Emphasis - BiotechnologyDESCRIPTIONCh E 5203Complete Ch E 520 with a passing grade.Chem 3343Complete Chem 334 with a passing grade.Phar 3314Complete Phar 331 with a passing grade.	Emphasis - Materi	<u>als</u>					
Engr 312       3       Complete Engr 312 with a passing grade.         Materials elective       3       Complete at least one materials elective chosen from the following courses: Ch E 543, ME 527, ME 528, ME 530, ME 531, ME 532, ME/EL E 533.         Tech elective or Ch E 330       3       Complete a technical elective or Ch E R&D Experience (ChE 330).         Emphasis - Biotechnology       Emphasis - Biotechnology       Emphasis - Biotechnology         REQUIREMENT       HOURS       DESCRIPTION         Ch E 520       3       Complete Ch E 520 with a passing grade.         Chem 334       3       Complete Chem 334 with a passing grade.         Phar 331       3       Complete Phar 331 with a passing grade.	REQUIREMENT	HOURS	DESC	RIPTION	N		
Materials elective       3       Complete at least one materials elective chosen from the following courses: Ch E 543, ME 527, ME 528, ME 530, ME 531, ME 532, ME/EL E 533.         Tech elective or Ch E 330       3       Complete a technical elective or ChE R&D Experience (ChE 330).         Emphasis - Biotechnolocy       Escription         REQUIREMENT       HOURS       DESCRIPTION         Ch E 520       3       Complete Ch E 520 with a passing grade.         Chem 334       3       Complete Chem 334 with a passing grade.         Phar 331       3       Complete Phar 331 with a passing grade.	<u>Ch E 545</u>	3	3 Complet		<u>545</u> with a passing grade.		
Image: Sign of the sign o	Engr 312	3	Complete		ete Engr 312 with a passing grade.		
Emphasis - BiotechnologyREQUIREMENTHOURSDESCRIPTIONCh E 5203Complete Ch E 520 with a passing grade.Chem 3343Complete Chem 334 with a passing grade.Phar 3313Complete Phar 331 with a passing grade.	Materials elective	3					
REQUIREMENTHOURSDESCRIPTIONCh E 5203Complete Ch E 520 with a passing grade.Chem 3343Complete Chem 334 with a passing grade.Phar 3313Complete Phar 331 with a passing grade.	Tech elective or Ch E 330	3	Comp	Complete a technical elective or ChE R&D Experience ( <u>ChE 330</u> ).			
Ch E 5203Complete Ch E 520 with a passing grade.Chem 3343Complete Chem 334 with a passing grade.Phar 3313Complete Phar 331 with a passing grade.	<u> Emphasis - Biotec</u>	hnolo	ay				
Chem 334     3     Complete Chem 334 with a passing grade.       Phar 331     3     Complete Phar 331 with a passing grade.	REQUIREMENT		но	URS	DESCRIPTION		
Phar 331     3     Complete Phar 331 with a passing grade.	<u>Ch E 520</u>		3		Complete Ch E 520 with a passing grade.		
	<u>Chem 334</u>		3		Complete Chem 334 with a passing grade.		
Tech elective or Ch E 330       3       Complete a technical elective or ChE R&D Experience (ChE 330).	Phar 331		3		Complete Phar 331 with a passing grade.		
			3		Complete a technical elective or ChE R&D Experience (ChE 330).		
Pre-Med Option							
REQUIREMENT HOURS DESCRIPTION	REQUIREMENT		HOUR	S I	DESCRIPTION		
Chem 471         3         Complete Chem 471 with a passing grade.	<u>Chem 471</u>		3		Complete <u>Chem 471</u> with a passing grade.		

The University of Mississippi is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award certificates and baccalaureate, master's, specialist, and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, call 404-679-4500, or visit online at www.sacscoc.org for questions about the accreditation.





REQUIREMENT		HOURS	DESCRIPTION				
<u>Chem 473</u>		3	Complete Chem 473 with a passing grade.				
Biological science courses		8	Complete the following biological science courses: Bisc 160/161 and Bisc 162/163.				
3 hrs Tech elective		3	Complete a technical elective.				
Emphasis - Environmental							
REQUIREMENT	HOURS	DESCRIPTION					
<u>C E 471</u>	3	Complete	<u>C E 471</u> with a passing grade.				
Advanced chemistry course	3	Complete a	ete at least one advanced chemistry course chosen from the following: <u>G E 503</u> or Engr 540.				
Environ. technical elective	3	Complete a	ete at least one of the following environmental technical elective courses: Engr 537, Engr 573, or Engr 571.				
Tech elective or Ch E 330	3 Complete		a technical elective or <u>ChE 330</u> .				
Emphasis - Manufacturing							
REQUIREMENT		HOURS	DESCRIPTION				
<u>Manf 150</u>		1	Complete Manf 150 with a passing grade.				
Manf 251		3	Complete Manf 251 with a passing grade.				
Manf 252		1	Complete Manf 252 with a passing grade.				
Manf 253		3	Complete Manf 253 with a passing grade.				
Manf 254		3	Complete Manf 254 with a passing grade.				
<u>Ch E 460</u>		1	Complete Ch E 460 with a passing grade				
<u>Ch E 461</u>		2	Complete Ch E 461 with a passing grade.				
<u>Bus 250</u>		3	Complete Bus 250 with a passing grade.				

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