

Chemical & Biomolecular Engineering: BIOMOLECULAR OPTION for Student entering ChE AU quarter of Year 2  
2005-2006

Name: \_\_\_\_\_ SSN: \_\_\_\_\_ Phone: \_\_\_\_\_

New to OSU: \_\_\_\_\_ email: \_\_\_\_\_@osu.edu

YEAR	AUTUMN	WINTER	SPRING
1	Math 151 (Calc & Analyc Geom) .... 5____ Chem. 121 (Gen Chem.) ..... 5____ Engineer 181 (Intro to Engr I) ..... 3____	Math 152 (Calc & Analyc Geom) ..... 5____ Chem. 122 (Gen Chem.) ..... 5____ Engineer 183 (Intro to Engr I) ..... 3____ <b>Biology 113</b> (Energy Trans&Dev) .. 5____	Math 153 (Calc & Analyc Geom) ..... 5____ Chem. 123 (Gen Chem.) ..... 5____ En Graph 167 (Prob Siv Prog Engr) Or CIS 202 (Prog & Alghms for Engrs). 4____
2	Chem. 251 (Organic Chem.) ..... 3____ ChBE 200 (Mass Balances) ..... 3____ Math 254 (Calc & Analyc Geom) .... 5____ Physics 131 (Particles & Motion)... 5____	Chem. 252 (Organic Chem.) ..... 3____ ChBE 201 (Energy Balances) ..... 3____ Math 415 (Ord & Part Diff Equ) ..... 4____ Physics 132 (Electrcy & Magntsm) . 5____	<b>Mol Gen 500<sup>†</sup></b> (Genetics) ..... 3____ ChBE 420 (Momentum Trans) ..... 4____ Physics 133 (Elctrdynmc & Quant) . 5____ Chem. 254 (Organic Chem. Lab).... 3____
3	<b>Chem. 530</b> (Physical Chem.) ..... 3____ ChBE 508 (Thermo I) ..... 3____ ChBE 521 (Heat Transport) ..... 3____	<b>Chem. 531</b> (Physical Chem.) ..... 3____ ChBE 509 (Thermo II) ..... 3____ <b>ChBE 522</b> (Mass Transport) ..... 3____ <b>Biochem 511<sup>†</sup></b> (Biochemistry) ..... 3____	Chem. 541 (Physical Chem. Lab) ... 3____ <b>ChBE 610</b> (Kinetics) ..... 4____ <b>ChBE 523</b> (Unit Operations) ..... 4____ <b>ChBE 750</b> (Profession) ..... 1____
SU*	<b>ChBE 630</b> (Unit Operations Lab) ..... 6____		
4	<b>ChBE 624</b> (Process Control) ..... 4____ <b>ChBE 760</b> (Econ & Strategy) ..... 4____	Mech Eng 410 (Statics) or Elec Eng 300 (Circuits) ..... 4/3____	<b>ChBE 762</b> (Process Devel) ..... 4____ ChBE 764 (Process Design) ..... 4____

Courses printed in **BOLD** are taught one quarter per year.

Please check Course Offerings Bulletin for availability of other courses.

GENERAL EDUCATION (38 hrs)	TECHNICAL ELECTIVES (18 hrs)	Sub-total Core.....150/149
English & Communication Skills (10)		General Education.....38
English 110 ( 5 ) _____	<b>ChBE xxx**</b> ( 3 ) _____	Technical Electives.....23
2 <sup>nd</sup> Writing Course ( 5 ) _____	<b>ChBE xxx**</b> ( 3 ) _____	
( ) _____	<b>Math Elective***</b> ( 3 ) _____	TOTAL HOURS .....211/210
Writing in the Core ( ) _____	<b>Mol Gen 500</b> (Genetics) ( 2 ) _____	
	<b>Biochem 511</b> (Biochemistry) ( 2 ) _____	
Social Sciences (9)	**** ( ) _____	<b>**ChBE TECHNICAL ELECTIVES:</b>
( ) _____	**** ( ) _____	Must take <b>two</b> of the following:
( ) _____		ChBE 694 (Informatics), 733, 765, 766, 769
( ) _____	<sup>†</sup> Biochem 511 replaces Chem. 253	
	<sup>†</sup> Mol Gen 500 replaces Chem. 532	<b>*** Stats 520 is recommended for the Math</b>
Historical Survey (10)	(extra two hours count as technical)	Elective, esp. if considering med school,
( ) _____	elective credit for these two courses)	but all choices are available:
( ) _____		CIS 541 (3), Math 512 (3), Math 513 (3), Math 514 (3), Math 530 (3), Math 568 (3), Stats 520 (5)
Arts & Humanities (9)	SOCIAL DIVERSITY	<b>**** Students must complete remaining</b>
a. Literature (1 course)	(May overlap with another GEC Category)	hours from list of approved courses
( ) _____	( ) _____	
b. Visual/Performing Arts or other		
Humanities (1 course)		
( ) _____		

Acceptance into the Chemical Engineering major is limited to 100 students per year and will depend on the cumulative point-hour ratio (CPHR) and the secondary point-hour ratio (*SPHR*) upon completion of the following pre-major courses: *Chemistry 121, 122, 123; Math 151, 152, & 153*. A minimum *SPHR* of 2.0 is required. Students with CPHR of 3.0 are assured of acceptance. Formal application is required. Students are accepted into the major Autumn and Winter quarters with the applications due the prior quarter. See Academic Advisor (KL 314) for details.

\*Students who co-op or intern during the summer after year 3 may take ChBE 630 the summer after year 4.