LIMCP -	Freshman	Year:	Fall	Semester

Course		Cr
ENES 100	Introduction to Engineering Design	3
MATH 140	Calculus I	4
CHEM 135	General Chemistry for Engineers	3
CHEM 136	General Chemistry for Engineers Laboratory	1
CORE		3
Total Credit	s	14

UMCP - Freshman Year: Spring Semester

Course		Cr
ENGL 101	Introduction to Writing	3
MATH 141	Calculus II	4
PHYS 161	General Physics:	3
BIOE 120	Biology for Engineers	3
CHBE 101	Intro to Chemical & Biomolecular Engineering	3
Total Credit	s	16

http://www.chbe.umd.edu/undergrad/fall2010/sample-f10forward.html

http://cms.montgomerycollege.edu/Curricula/Engineering_Science_A_S__-Chemical_Engineering/

MC - Freshman Year: Fall Semester

Course		Cr
CH 101	Principles of Chemistry I	4
EN 102	Techniques of Reading and Writing II	3
ES 100	Introduction to Engineering Design	3
MA 181	Calculus I	4
	Humanities distribution	3
Total Credi	ts	17

MC - Freshman Year: Spring Semester

Course		Cr
CH 102	Principles of Chemistry II	4
BIOE 120	Biology for Engineers – MTAP at UMCP	3
MA 182	Calculus II	4
PH 161	General Physics I	3
	Behavioral and social sciences	3
Total Credit	ts	17

MC - Sophomore Year: Summer Semester

Course	Cr
CHBE 101 Intro to Chem.I & Biomole. Eng – MTAP at UMCF	3
Total Credits	3

UMCP - Sophomore Year: Fall Semester			MC - Sopho	more Year: Fall Semester	
Course		Cr	Course		Cr
MATH 241	Calculus III	4	CH 203	Organic Chemistry I	5
PHYS 260	General Physics II	3	MA 280	Multivariable Calculus	4
PHYS 261	General Physics II Laboratory	1	PH 262	General Physics II	4
CHEM 231	Organic Chemistry I	3		Arts distribution	3
CHEM 232	Organic Chemistry Laboratory I	1	Total Credit	s	16
CHBE 301	CHBE Thermodynamics I	3	MC - Sopho	more Year: Spring Semester	
CORE		3	Course	, ,	Cr
Total Credit	s	18	CH 204	Organic Chemistry II	5
UMCP - Sop	homore Year: Spring Semester		MA 282	Differential Equations	3
Course		Cr	PH 263	General Physics III	4
MATH 246	Differential Equations for Scientists and Engineers	3	CHBE 250	Comp. Methods in Chem. Eng. – MTAP at UMCP	3
PHYS 270	General Physics III	3	Total Credit	s	15
PHYS 271	General Physics III Laboratory	1	MC Transfe	r Student - Junior Year: Summer Semester	
CHEM 241	Organic Chemistry II	3	Course		Cr
CHEM 242	Organic Chemistry Laboratory II	1	CHBE 301	CHBE Thermodynamics I	3
CHBE 250	Computer Methods in Chemical Engineering	3	ENGL 393	Technical Writing	3
CHBE 302	CHBE Thermodynamics II	3	Total Credit	s	6
Total Credit	s	17			

UMCP - Junior	Year: Fall Semester
---------------	---------------------

Course		Cr
CHBE 410	Statistics and Experimental Design	3
CHBE 422	Chem. and Biomolecular Transport Phenomena I	3
CHBE 440	Chemical Kinetics & Reactor Design	3
CHEM 272	General Bioanalytical Chemistry Laboratory	2
ENGL 393	Technical Writing	3
CORE		3
Total Credit	s	17

MC Transfer Student - Junior Year: Fall Semester

Course		Cr
CHBE 410	Statistics and Experimental Design	3
CHBE 422	Chem. and Biomolecular Transport Phenomena I	3
CHBE 440	Chemical Kinetics & Reactor Design	3
CHEM 272	General Bioanalytical Chemistry Laboratory	2
CORE		3
Total Credit	s	14

MC Transfer Student - Junior Year: Winter Semester

Course		Cr
CHBE 302	CHBE Thermodynamics II	3

UMCP - Junior	Year: Spring	Semester
----------------------	--------------	----------

Course		Cr
BCHM 461 or	Biochemistry I	3
BCHM 463	Biochemistry of Physiology	
ENMA 300 or	Intro to Materials and Their Applications	3
ENMA 425 or	Introduction to Biomaterials	
BIOE 453	Biomaterials	
CHBE 424	Chem. and Biomolecular Transport Phenomena II	3
CHBE 426	Chemical and Biomolecular Separation Processes	3
CHBE 333	Communication Skills for Engineers	1
CORE		3
Total Credit	s	16

MC Transfer Student - Junior Year: Spring Semester

	Student - Junior Tear. Spring Semester	
Course		Cr
BCHM 461 or	Biochemistry I	3
BCHM 463	Biochemistry of Physiology	
ENMA 300 or	Intro to Materials and Their Applications	3
ENMA 425 or	Introduction to Biomaterials	
BIOE 453	Biomaterials	
CHBE 424	Chem. and Biomolecular Transport Phenomena II	3
CHBE 426	Chemical and Biomolecular Separation Processes	3
CHBE 333	Communication Skills for Engineers	1
CORE		3
Total Credits		16

UMCP - Sen	ior Year: Fall Semester		
Course		Cr	
CHBE 437	Chemical & Biomolecular Engineering Laboratory	3	
CHBE 442	Chemical & Biomolecular Systems Analysis	3	
CHBE 444	Process Engineering Economics and Design I	3	
	Technical Elective*	3	
CORE		3	
Total Credits			
* See our Technical Electives page for a list of approved courses »			

LINACD	Caniar '	Vaare	Carina	Semester
CHVICE -	.3C111011	TEAL.	אוווווצי.	Jeilleziei

Course		Cr
CHBE 446	Process Engineering Economics and Design II	3
	Technical Elective [*]	3
	Technical Elective*	3
CORE		3
CORE		3
Total Credits		15

MC Transfer Student - Senior Year: Fall Semester

Course		Cr
CHBE 437	Chemical & Biomolecular Engineering Laboratory	3
CHBE 442	Chemical & Biomolecular Systems Analysis	3
CHBE 444	Process Engineering Economics and Design I	3
	Technical Elective [*]	3
CORE		3
Total Credits		15

^{*} See our Technical Electives page for a list of approved courses »

MC Transfer Student - Senior Year: Spring Semester

Course		Cr
CHBE 446	Process Engineering Economics and Design II	3
	Technical Elective [*]	3
	Technical Elective [*]	3
CORE		3
Total Credits		12