## CHEMICAL ENGINEERING Biochemical Engineering MAJ ORG SEQ

F ALLCHRM:1100 CHRM:12Engineering Problem Solving I ALL3 ALLALLCHRM:12030 CHRM:12030Rhetoric4ALLRHET:12030 CHRM:12030Rhetoric1FENGR:1200 CHRM:12030Engineering Math IL: Mutri-Variable Calcula3 C: MATH:1550F/SMATH:2550 CHRM:1200Engineering Math IL: Mutri-Variable Calcula3 C: MATH:1550ALLMATH:2550 CHRM:1200Engineering Math IL: Mutri-Variable Calcula3 C: MATH:1550ALLMATH:2550 CHRM:1200Engineering Math IL: Mutri-Variable Calcula3 C: MATH:1550ALLCHRM:1200 CHRM:1200Problem Solving II CHRM:12003 C: MATH:1550ALLCHRM:1200 CHRM:1200Engineering Fundamentals II: Thermodynamics3 P:MATH:1550ALLENGR:2110 CHRM:1200Engineering Fundamentals II: Thermodynamics3 P:MATH:1550ALLENGR:2100 CHRM:1200Engineering Fundamentals II: Thermodynamics3 P:MATH:1550ALLENGR:2100 CHRM:1200CGR:100 CHRM:12003 CHRM:1200CHRM:1200 CHRM:1200Engineering Fundamentals II: Thermodynamics3 P:CHRM:1200ALLCHRM:1200 CHRM:1200CGR:100 CHRM:12003 CHRM:1250CHRM:1200 CHRM:1200Engineering Fundamentals II: Thermodynamics3 P:CHRM:1200CHRM:1200 CHRM:1200CGR:100 CHRM:1200CCR:2105CHRM:1200 CHRM:1200CGR:1010 CHRM:1200P:CGR:2105SCHRM:1200 CHRM:1200CGR:1010 CHRM:1200	<sup>st</sup> Year Session	Course	Course Name	SH	P: Prerequisite; C: Coreq; R: Recommend
ALL CHEM.1310 Principles of Chemistry I 4   ALL NHET.1300 Reprove Chemistry I First Semester Standing   F ENGR1000 Engreering Math II: Multi-Variable Calculus 4 P: MATH.1550   F/S MATH.1560 Engineering Math II: Multi-Variable Calculus 4 C: MATH.1550   ALL PHYS.1611 Introductory Physics I 4 C: MATH.1550   ALL MATH.2550 Engineering Math II: Matrix Algebra 2 P: MATH.1550   ALL MATH.2550 Engineering Math II: Matrix Algebra 2 P: MATH.1550   ALL MATH.2560 Engineering Math IV: Differential Expansion 0   224 Year T TOTAL 7   ALL MATH.2560 Engineering Indamentals ISTatics 2   ALL ENGR.2130 Engineering Indamentals ISTatics 2   ALL ENGR.2130 Engineering Indamentals ISTatics 3   F CHEM.2240 Organic Chemistry I Informatics 3   F CHEM.2240 Organic C	F/S	Math 1550	Engineering Math I: Single Variable Calculus	4	P: HS Algebra & Trigonometry; Score of 80 on ALEKS
ALL     First Semester Standing     I       F     First Semester Standing     I       F/S     MATH250     Engineering Problem Solving II     AIL     I       F/S     MATH250     Engineering Problem Solving II     AIL     C     MATH250       ALL     MATH250     Engineering Math III: Matrix Algebra     C     MATH250       ALL     CHEM1100     Principles of Chemistry Kast     P     C       ALL     MATH2500     Engineering Math III: Matrix Algebra     2     P:MATH1500       S     CBE1000     GEngineering Math III: Matrix Algebra     3     P:MATH1550       ALL     MATE250     Engineering Math III: Matrix Algebra     3     P:MATH1550       ALL     ENSR:2130     Engineering Math III: Matrix Staluts     3     P:MATH1550       ALL     ENSR:2130     Engineering Math III: Matrix Staluts     3     P:MATH1550       ALL     ENSR:2130     Engineering Math III: Matrix Staluts     3     P:MATH1550       ALL     ENSR:2130     Chemistry IIFOr Majors     3     P:MATH1550       S     CBE310	F	ENGR:1100	Engineering Problem Solving I	3	
ALL     RHET:020     Risk Success for First Year Students     1     First Semester Standing       F/S     NATHL550     Engineering Math III: Multi-Variable Calculus     4     PLATH 1550       F/S     NATHL550     Engineering Math III: Multi-Variable Calculus     3     C:MATH-1550       ALL     MATH_2550     Engineering Math III: Matrix Algebra     2     P.MATH-1550       ALL     CHEM_11250     Engineering Math III: Matrix Algebra     3     P:MATH-1550       ALL     CHEM_11250     Engineering Math IV: Differential Equations     3     P:MATH-1550       ALL     ENGR-2110     Engineering Math IV: Differential Equations     3     P:MATH-1550       ALL     ENGR-2105     Organic Chemistry II or Majors     3     P:MATH-1550       ALL     ENGR-2105     Organic Chemistry II or Majors     3     P:MATH-1550       ALL     ENGR-2105     Organic Chemistry II or Majors     3     P:MATH-1550       ALL     ENGR-2105     Che Thermodynamics     3     P:MATH-1550       S     CHEM-220     Organic Chemistry II or Majors     3     P:MATH-1550 <t< td=""><td>ALL</td><td>CHEM:1110</td><td></td><td>4</td><td></td></t<>	ALL	CHEM:1110		4	
F     ENGL:2000     Engl Success for First Year Students     1     First Semester Standing       F/S     MATH 1560     Engineering Math II: Multi-Variable Calculus     4     P::MATH 1550       F/S     ENGR:3200     Engineering Math III: Matrix Algebra     4     P::MATH:3550       ALL     PHYS:1611     Introductory Physics I     4     C::MATH:3550       ALL     MATH:2550     Engineering Math III: Matrix Algebra     4     P::MATH:1550       ALL     ORE:1000     CEE Engineering fundamental stantis     7     -       ALL     MATH:2550     CEE:1000     CEE:1000     CEE:1000     CEE:1000       ALL     ENGR:2110     Engineering fundamentals itsTatics     2     P::MATH:1550     CMATH:1550     CMATH:150     CMA	ALL	RHET:1030		4	
F/S     MATH 1500     Engineering Problem Solving II     4     P: MATH 1500       F/S     ENGR:1200     Engineering Math II: Multi-Variable Calculus     4     P: MATH 1550       ALL     PMS:1611     Hintoductory Physics 1     4     C: MATH:1550       ALL     CHEM:1200     Principles of Chemistry II     4     P: CHEM:1550       ALL     CHEM:1200     CBE Departmental Seminar     0       *     CHEM:1200     Engineering Math IV: Differential Equations     3     P: MATH:1560; MATH 2550       ALL     ENGR:2110     Engineering Fundamentals II: Thermodynamics     9     P: MATH:1500     CMATH:1560; C: PHYS:161, C: MATH:1560; C: PHYS:161, C: MATH:1560; MATH 2550       ALL     ENGR:2130     Engineering Fundamentals III: Thermodynamics     9     P: MATH:150       ALL     ENGR:2130     Organic Chemistry IFOr Majors     3     P: MATH:150       ALL     CBE:3100     Engineering Fundamentals III: Thermodynamics     3     P: CBE:2105       S     CBE:3100     Engineering Fundamentals III: Electrical Circuits     4     P: MATH:150       S     CHEM:2200     Organic Chemistry II of Majors	F		Engr Success for First Year Students	1	First Semester Standing
F/SENGR:1300Engineering Problem Solving II3C: MATH:1550ALLMATH:250Engineering Math III: Matrix Algebra2P: MATH:1550ALLCHEM:1100Principles of Chemistry II4P: CHEM:1100SCBE:1000CBE bepartmental Seminar07ALLMATH:2500Engineering Math III: Matrix Algebra3P: MATH:1560; MATH 2550ALLEngineering Fundamentals Ensities2P: MATH:1550P: MATH:1550ALLENGR:2110Engineering Fundamentals IIS fattiss2P: MATH:1550ALLENGR:2120Engineering Fundamentals IIS fattiss2P: MATH:1550FCHEM:2230Organic Chemistry IF or Majors3P: MATH:1550ALLENGR:2130Creatic Chemistry IF or Majors3P: MATH:1550SCHEM:2240Organic Chemistry IF or Majors3P: CHEM:2230SCHEM:2240Organic Chemistry II for Majors3P: CLE:2105SCHEM:2240Organic Chemistry II for Majors3P: CLE:2105SCHEM:2240Organic Chemistry II for Majors3P: CLE:2105ALLSTAT:2020Elective #1: Prob & Stats for Engr & Phys Sci3P: CLE:2105F/SCHEM:220CBE Professional Seminar0P: CLE:2105F/SCHEM:220CBE Professional Seminar0P: CLE:2105F/SCHEM:220CBE Professional Seminar0P: CLE:2105F/SCHEM:220CBE Professional Seminar0			Total	16	
ALL PHYS:1611 Introductory Physics I 4 C:HAT:1550   ALL CHEM:1120 Principles of Chemistry II 4 C:HAT:1550   ALL CHEM:1120 Principles of Chemistry II 4 P:CHEM:1100   Year IOTAL 7 7   ALL MATH:2560: MATH:2560: MATH:2560: MATH:2550 3 P:MATH:1560: MATH:2550   ALL Engineering Gindmental Status: 2 P:MATH:1550 C:MATH:1560: C:PHYS:161   ALL ENGR:2130 Engineering Findmental Status: 2 P:MATH:1550 C:MATH:1560   ALL ENGR:2130 Engineering Findmental Status: 2 P:MATH:1550 C:MATH:1560   ALL CEE:2105 Creaces Calculations 3 P:CEE:2105 C:E:S105   ALL CEE:2105 Creaces Calculations 3 P:ENGR:2130; C: C:E:2105   S CEE:3110 Engineering Findmanetal Status: 7 P:ENGR:2130; C: C:E:2105   S CHEM:220 Organic Chemistry II for Majors 3 P:EE:2105   S CHEM:220 Organic Chemistry II for Majors 3 P:EE:2105   S CHEM:220 Organic Chemistry II for Majors 3 P:EE:2105   S CHEM:220 Organic Chemistry II for Majors 3					
ALL MATH:2550 Engineering Math III: Matrix Algebra 2 P: MATH:1550   ALL CHEM:1120 Principles of Chemistry II 4 P:CHEM:1100   S CBE:1000 CBE Departmental Seminar 0   ALL MATH:1550 Engineering Math IV: Differential Equations 3 P:MATH:1550; MATH 2550   ALL ENGR:2110 Engineering Fundamentals 15tatcs 2 P:MATH:1550; CMATH:1550; C:PHYS:16:   ALL ENGR:2130 Engineering Fundamentals 15tatcs 3 P:MATH:1550; C:MATH:1550; C:MATH:1550; C:MATH:1560; MATH:1550; C:MATH:1550; C:MATH:150; C:MATH:1550; C:MATH:150; C:MATH:1550; C:MATH:150; C:MATH:150; C:MATH:150; C:MATH:1550; C:MATH:150; C					
ALL     CHE MU120     Principles of Chemistry II     4     P.CHEM1100       3 Year     TOTAL     17       ALL     MATH2560     Engineering fund component 41     3       ALL     ENGRE2110     Engineering Fundamentals II: Thermodynamics     2       ALL     ENGRE2110     Engineering Fundamentals III: Thermodynamics     3     P:CHEM1120, FUNS160; C:PHV3:16, C:PHV3:1		PHYS:1611		4	C: MATH:1550
S     CBE: Departmental Seminar     0       *Year     TOTAL     17       ALL     MATH2560     Engineering Math IV: Differential Equations General Education Component #1     3     P:MATH:1560; MATH 2550       ALL     ENGR:21100     Engineering Fundamentals IStatics     2     P:MATH:1550; C:MATH:1560; C:PHVS:161       ALL     ENGR:2130     Engineering Fundamentals IIStatics     3     P:CHEM1:110; PHVS:1611; C:MATH:1550       F     CHEM:2230     Organic Chemistry I For Majors     3     C:HEM1:1120; PHVS:1611; C:MATH:1550       F     CHEM:2230     Organic Chemistry I For Majors     3     P:EMGR:2130; C: CBE:2105       S     CBE:3110     Engineering Flow and Heat Exchange     3     P:EMGR:2130; C: CBE:2105       S     CHEM:2240     Organic Chemistry I for Majors     3     P:CBE:3105; CBE:3110       S     CHEM:2240     Organic Seminar     0     P:CBE:3105; CBE:3110       F     CBE:3150     Thermodynamics/Transport Laboratory     3     P:CBE:3105; CBE:3110; CCBE:3110       F     CBE:3150     Thermodynamics/Transport Laboratory     3     P:CBE:3105; CBE:3110; CCBE:3110; CCBE:3110; CCBE:3110; CCBE:3110; CCBE:3110	ALL	MATH:2550	Engineering Math III: Matrix Algebra	2	P: MATH:1550
Alter     TOTAL     17       Alt     MATP2560     Engineering Math IV: Differential Quations     3     P:MATH:1560; MATH 2500       ALL     ENGR:2110     Engineering Fundamentals II: Status     2     P:MATH:1560; C:PHYS:163       ALL     ENGR:2120     Engineering Fundamentals II: Thermodynanics     3     P:CHEN:1110; PHYS:1611; C:MATH:1560       ALL     CB:2105     Process: Calculations     3     P:MATH:1550     C:MATH:1550       F     CHEM:2230     Organic Chemistry If or Majors     3     P:ENGR:2130; C: CB:2105       S     CB:2105     ChE     Total     17       S     CB:2100     Engineering Flow and Heat Exchange     3     C:CB:2105       S     CHEM:2420     Organic Chemistry If or Majors     3     3     P:CB:2105       ALL     STAT:2020     Elective #1: Prob & Stats for Engrg & Phys Sci     3     P:CB:2105     CB: Professional Seminar     0     P:CB:2105       Vear     Total     Total     Total     Total     Total     Total       F     CB:3105     Thermodynamics/Transport Laboratory     P:CB:2105 <td>ALL</td> <td>CHEM:1120</td> <td></td> <td>4</td> <td>P:CHEM:1100</td>	ALL	CHEM:1120		4	P:CHEM:1100
ALL ALLALL Engineering Math W: Differential Equations% PMATH:1560; MATH 2550ALLENGR:2110Engineering Fundamentals listatics2P:MATH:1550 C:MATH1560; C:PHYS:16:ALLENGR:2130Engineering Fundamentals listatics3P:CIEM:1110; PHYS:1611;C:MATH:1560FCHEM:2230Organic Chemistry I For Majors3CHEM:1120FCHEM:2230Organic Chemistry I For Majors3P:CIEM:1120SCHEM:2240Organic Chemistry I for Majors3P:NATH:1550SCHEM:2240Organic Chemistry I for Majors3P:ENGR:2130; C: CBE:2105SCHEM:2240Organic Chemistry I for Majors3P:CIEM:2130; C: CBE:2105SCHEM:2240Organic Chemistry I for Majors3P:CIEM:2130; C: CBE:2105ALLSTAT:200CBEIver #11: ProM Salors3P:CIEM:2105; CBE:3110ALLSTAT:201Elective #11: ProMajors3P:CIEM:2105; CBE:3110; C: CBE:3115F/SCBE:3150Thermodynamics/Transport Laboratory3P:CIEM:3110; C: CBE:3115FCBE:3150CBE:100CBE:100CBE:100CBE:100F/SENR:2120Engineering Fundamentals II: Electrical Circuits3P:CIEM:3110; C: CBE:3120F/SCBE:3155Chemical Reaction Engineering/Separation Lab2P:CIEM:3110; C: CBE:3120F/SCBE:3155Chemical Reaction Engineering/Separation Lab3P:CIEM:3110; C: CBE:3120; CIEM:3120F/SCBE:3155Chemical Reaction Engineering/Separation Lab4 <td< td=""><td>-</td><td>CBE:1000</td><td></td><td>-</td><td></td></td<>	-	CBE:1000		-	
ALLEdeneral Education Component #13ALLENGR-2130Engineering Fundamentals Istatics2P:AATH:1550 C:MATH:1560 C:PHF3:161ALLENGR-2130Engineering Fundamentals III: Thermodynamics3P:CHEM:1110; PHYS:1611; C:MATH:1560FCHEM:2230Organic Chemistry I For Majors3CHEM:1120ALLCBE:2105ChETProcess Calculations3P:MATH:1550SCBE:3105ChET Thermodynamics3P:MATH:1550P:MATH:1550SCHEM:12240Organics Chemistry II for Majors3CCEB:2105SCHEM:2240Organics Chemistry II for Majors3F/SALLSTAT:2020Elective #1: Prob & Stats for Engrg & Phys Sci3F/SCBE:3100CBE Professional Seminar0P:CBE:3105; CBE:3110FCBE:3150Thermodynamics/Transport Laboratory3P:CBE:3105; CBE:3110; CC:BE:3115;FCBE:3100CBE Professional Seminar0P:CBE:3105; CBE:3110; CC:BE:3126;F/SENR:2120Engineering Fundamentals II: Electrical Circuits3P:CBE:3105; CBE:3120;ALLENGR:2720Material Science3P:CBE:3105; CBE:3120;F/SCBE:3000CBE Professional Seminar0P:CBE:310;ALLEngineering Fundamentals II: Electrical Circuits3P:CBE:310;SCBE:3120Chemical Reaction Engineering/Separation Lab2P:CBE:310;F/SCBE:3100CBE Professional Seminar0P:CBE:310;SCBE					
ALLENGR:2110Engineering Fundamentals Listatics2PMATH:1550 C:MATH1550; C:PHYS:161ALLENGR:2130Engineering Fundamentals III: Thermodynamics3PCHEM:1120ALLCBE:2105Process Calculations3PCHEM:1120SCBE:3105ChT Thermodynamics3P:NATH:1550SCBE:3105ChT Thermodynamics3P:ENGR:2130; C: CBE:2105SCBE:310Engineering Flow and Heat Exchange3C:CBE:2105SCHEM:2420Organics Chemistry Il for Majors3-SCHEM:2420Organics Chemistry Il for Majors3-ALLSTAT:200Eletive #11: Prof & Aljors3-F/SCBE:3000CBE Professional Seminar0P:CBE:2105VearTotal7YearTotal9KCBE:310Thermodynamics/Transport Laboratory3P:CBE:3105; CBE:3110; CCBE:3110; CCBE:3110; CCBE:3110; CCBE:3110; CCBE:3120; CBE:3110; CCBE:3120; CBE:3110; CCBE:3120; CBE:3120; CBE		MATH2560			P:MATH:1560; MATH 2550
ALLENGR:2130Engineering Fundamentals III: Thermodynamics3P:CHEM:1110; PHYS:1611;C:MATH:1560ALLCBE:2105Process Calculations3P:MATH:1250ALLCBE:2105Process Calculations3P:ENGR:2130; C: CBE:2105SCBE:3105ChE Thermodynamics3P:ENGR:2130; C: CBE:2105SCBE:3100Engineering Flow and Heat Exchange3CCBE:2105SCHEM:2200Organic Chemistry Lib for Majors3CCBE:2105ALLSTA7:2020Elective #1: Prob & Stats for Engrg & Phys Sci3F/SCBE:3100CBE Professional Seminar0P:CBE:3105; CBE:3110FCBE:315Mass Transfer and Separations3P:CBE:3105; CBE:3110; CCBE:3113;FCBE:315Thermodynamics/Transport Laboratory3P:CBE:3105; CBE:3110; CCBE:3113;F/SCBE:300CBE Professional Seminar0P:CBE:3105; CBE:3110; CCBE:3110;ALLENGR:2720Material Science3P:CBE:3105; CBE:3110; CCBE:3110;F/SCBE:300CBE Professional Seminar0P:CBE:310; CBE:3110; CCBE:3120;F/SCBE:3125Chemical Reaction Engineering/Separation Lab2P:CBE:3110; CCBE:3120;F/SCBE:3125Chemical Reaction Engineering/Separation Lab3P:CBE:310; CCBE:3120;SCBE:3125Chemical Reaction Engineering P:CBE:310; CCBE:3115;SALLGeneral Education Component #23P:CBE:310; CCBE:3120;SCBE:3125Chemical Reaction Engineering P:CBE:310					
FCHEM:2230Organic Chemistry For Majors3CHEM:1120ALLCBE:2105Process Calculations3P:MATH:1550SCBE:3105ChE Thermodynamics3P:MATH:1550SCBE:3101Engineering Flow and Heat Exchange3C.CBE:2105SCHEM:2240Organic Chemistry Ifor Majors3C.CBE:2105SCHEM:2400Organic Chemistry Ifor Majors3C.CBE:2105ALLSTAT:2020Elective #1: Prob & Stats for Engr & Phys Sci3F.CBE:2105F/SCBE:3105CBE Professional Seminar0P:CBE:2105, CBE:3110FCBE:3115Mass Transfer and Separations3P:CBE:3105, CBE:3110, C:CBE:3115, C:CBE:3115FCBE:3150Thermodynamics/Transport Laboratory3P:CBE:3105, CBE:3110, C:CBE:3115FCBE:3150Material Science3P:CHE:3115, C:CBE:3115ALLENGR:2720Material Science3P:CHE:3110, C:MATH:2550F/SCBE:3000CBE Professional Seminar0P:CBE:3115SCBE:3155Chemical Reaction Engineering /Separation Lab2P:CBE:3110, CBE:3150SCBE:3155Chemical Reaction Engineering /Separation Lab3P:CBE:3110, CBE:3150SCBE:3155Chemical Reaction Engineering /Separation Lab2P:CBE:3110, CBE:3150, C:CBE:3120SCBE:3155Chemical Reaction Engineering /Separation Lab2P:CBE:3110, CBE:3150, C:CBE:3120SCBE:3155Chemical Reaction Engineering /Separation Lab </td <td></td> <td>ENGR:2110</td> <td></td> <td></td> <td>P:MATH:1550 C:MATH1560; C:PHYS:1611</td>		ENGR:2110			P:MATH:1550 C:MATH1560; C:PHYS:1611
AllCBE:2105Process Calculations3P:MATH:1550CBE:3105ChE Thermodynamics3P:ENGR:2130; C: CBE:2105SCBE:3110Engineering Flow and Heat Exchange3C:CBE:2105SCHEM:2240Organics Chemistry Llab for Majors3C:CBE:2105SCHEM:2420Organics Chemistry Llab for Majors3C:CBE:2105ALLSTAT:2020Elective #1: Prob & Stats for Engrg & Phys Sci3F/SF/SCBE:3100CBE Professional Seminar0P:CBE:3105; CBE:3110FCBE:3155Mass Transfer and Separations3P:CBE:3105; CBE:3110; C:CBE:3115FCBE:3150Thermodynamics/Transport Laboratory3P:CBE:3105; CBE:3110; C:CBE:3115ALLENGR:2720Material Science3P:CBE:3105; CBE:3110; C:CBE:3115ALLENGR:2720Material Science3P:CBE:3115ALLGBE:3100CBE Professional Seminar0P:CBE:3115F/SCBE:3000CBE Professional Seminar0P:CBE:3115SCBE:3125Chemical Reaction Engineering/Separation Lab2P:CBE:3110; CEE:3120SCBE:3155Chemical Reaction Engineering/Separation Lab2P:CBE:3110; CEBE:3120SCBE:3100CBE Professional Seminar0P:CBE:3110; CEBE:3120ALLGeneral Education Component #33P:CBE:3110; CEBE:3120SCBE:3155Chemical Regineering Process Design 12P:CBE:3110; CEBE:3120ALL(odd)Elective #3: CBE	ALL	ENGR:2130		3	P:CHEM:1110; PHYS:1611;C:MATH:1560
Total17SCBE:3105ChE Thermodynamics3SCBE:3110Engineering Flow and Heat Exchange3C:CBE:2105SCHEM:2240Organic Chemistry lif for Majors3ALLSTAT:2020Elective #1: Prob & Stats for Engrg & Phys Sci3F/SCBE:3000CBE Professional Seminar0P:CBE:3105; CBE:3110FCBE:3115Mass Transfer and Separations3P:CBE:3105; CBE:3110; CSE:3110; CSE:3120; CSE:31	F	CHEM:2230	Organic Chemistry I For Majors	3	CHEM:1120
SCBE:3105Che Thermodynamics3P:ENGR:2130; C: CBE:2105SCBE:3110Engineering Flow and Heat Exchange3C:CBE:2105SCHEM:2240Organic Chemistry II for Majors3-ALLSTAT:2020Elective #1: Prob & Stats for Engrg & Phys Sci3-F/SCBE:3000CBE Professional Seminar0P:CBE:3105; CBE:3110YearTotal9P:CBE:3105; CBE:3110-FCBE:3150Thermodynamics/Transport Laboratory3P:CBE:3105; CBE:3110; C:CBE:3115FCBE:3150Thermodynamics/Transport Laboratory3P:CBE:3105; CBE:3110; C:CBE:3115F/SENR:2120Material Science9P:CBE:3105; CBE:3110; C:CBE:3116ALLENGR:2720Material Science9P:CBE:3105; CBE:3110; C:CBE:3116ALLENR:2120Engineering Fundamentals II: Electrical Circuits3C:MATH:2560F/SCBE:3000CBE Professional Seminar0P:CBE:3115; C:CBE:3120F/SCBE:3120Chemical Reaction Engineering/Separation Lab2P:CBE:3110; CBE:3120; C:CBE:3120SCBE:3125Chemical Reaction Engineering/Separation Lab3P:CBE:310; CEB:3120; C:CBE:3120SCBE:3125Chemical Reaction Component #33H:CBE:310; C:CBE:3120ALLGeneral Education Component #33P:CBE:3120; C:CBE:3115ALLGeneral Education Component #33P:CBE:3120; C:CBE:3115F/SCBE:4109Chemical Engineering Process Design I2 <td< td=""><td>ALL</td><td>CBE:2105</td><td>Process Calculations</td><td></td><td>P:MATH:1550</td></td<>	ALL	CBE:2105	Process Calculations		P:MATH:1550
SCBE:3110Engineering Flow and Heat Exchange3CCBE:2105SCHEM:2240Organics Chemistry II for Majors3-ALLSTAT:2020Elective #1: Prob & Stats for Engrg & Phys Sci3-F/SCBE:3000CBE Professional Seminar0P.CBE:2105YearTotalSFCBE:315Mass Transfer and Separations3P.CBE:3105; CBE:3110FCBE:315Mass Transfer and Separations3P.CBE:3105; CBE:3110; CBE:3115; CCBE:3115ALLFCBE:3100Thermodynamics/Transport Laboratory3P.CHEB:310; CBE:3110; CCBE:3115; CCBE:3120; CBE:3120; CBE:3120; CBE:3110; CBE:3115; CCBE:3120; CCBE:3120; CBE:3115; CCBE:3120; CC					
SCHEM:2240Organics Chemistry II for Majors3SCHEM:2420Organics Chemistry Lab for Majors3ALLSTAT:2020Elective #1: Prob & Stats for Engrg & Phys Sci7F/SCBE:3000CBE Professional Seminar0P:CBE:2105YearTotal1FCBE:3115Mass Transfer and Separations3P:CBE:3105; CBE:3110; CCEE:3120; CCEE:3110; CCE					
SCHEM:2420Organic Chemistry Lab for Majors3ALLSTAT:2020Elective #1: Prob & Stats for Engrg & Phys Sci3F/SCBE:3000CBE Professional Seminar0P:CBE:2105YearTotal15YearNass Transfer and Separations3P:CBE:3105; CBE:3110FCBE:3150Thermodynamics/Transport Laboratory3P:CBE:3105; CBE:3110; CCBE:3115ALLENGR:2720Material Science3P:CBE:3105; CBE:3110; CCBE:3115F/SENS:2120Engineering Fundamentals II: Electrical Circuits ALLCBE:3000CBE Professional Seminar0F/SCBE:3000CBE Professional Seminar10P:CBE:3105; CBE:3110; CCBE:3120SCBE:3120Chemical Reaction Engineering/Separation Lab SP:CBE:3110; CCBE:3120CCBE:3120SCBE:3155Chemical Process Safety3P:CBE:3110; CBE:3115; CCBE:3120ALLGeneral Education Component #33P:CBE:310; CBE:3115; CCBE:3120ALLGeneral Education Component #43P:CBE:310; CBE:3120; CBE:3120ALLGeneral Education Component #43P:CBE:310; CBE:3115; CCBE:3120ALLGeneral Education Component #43P:CBE:310; CBE:3115; CCBE:3120; CBE:3115; CCBE:3120; CBE:3115; CCBE:3120; CBE:3115; CCBE:3120; CBE:3120;		CBE:3110			C:CBE:2105
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