CHEMICAL ENGINEERING BSE
Plan Requirements

Campus:	UMICH	**RG = Requirement Group**	
Career:	UENG	**RQ = Requirement**	
Program:		**LN = Line**	
Plan:	1250BSE		

RG 6218   CHEMICAL ENGINEERING MAJOR REQUIREMENTS
Effective FA05/1560 (09/06/2005)

RQ 4703   Program Subjects
Effective FA10/1810 (09/07/2010)

LN 0010	CHE 230, 330, 341, 342, 343, 344, 360, 485 (C- or higher)
LN 0020	Less than Minimum Grade (make no exceptions here)
LN 0030	CHE 460, 466
LN 0040	CHE 487 or (CHE 488 and 489)
LN 0050	CHE 488 and 489

Effective FA08/1710 (09/02/2008)

LN 0010	CHE 230, 330, 341, 342, 343, 344, 360 (C- or higher)
LN 0020	Less than Minimum Grade (make no exceptions here)
LN 0030	CHE 460, 466, 487
LN 0040	CHE 487 or (CHE 488 and 489)
LN 0050	CHE 488 and 489

Effective WN08/1670 (01/03/2008)

LN 0010	CHE 230, 330, 341, 342, 343, 344, 360 (C- or higher)
LN 0020	Less than Minimum Grade (make no exceptions here)
LN 0030	CHE 460, 466, 487

Effective FA05/1560 (09/06/2005)

LN 0010	CHE 230, 330, 341, 342, 343, 344, 360 (C- or higher)
LN 0020	Less than Minimum Grade (make no exceptions here)
LN 0030	CHE 460, 466, 487

RQ 4704   Advanced Chemistry
Effective WN08/1670 (01/03/2008)

LN 0010	CHEM 210 (C- or higher) OR
LN 0015	CHEM 210 (external transfer)
LN 0020	CHEM 211 (C- or higher) OR
LN 0025	CHEM 211 (external transfer)
LN 0030	CHEM 215 (C- or higher) OR
LN 0035	CHEM 215 (external transfer)
LN 0040	CHEM 216 (C- or higher)
LN 0045	CHEM 216 (external transfer)
LN 0050	Less than Minimum Grade (make no exceptions here)
LN 0070	CHEM 260 or 261 (MATSCIE 242 or PHYSICS could be used as alternatives) OR
LN 0075	CHEM 260 or 261 (external transfer)
LN 0090	Excess CHEM (make no exceptions here)

Effective FA05/1560 (09/06/2005)

LN 0010	CHEM 210 (C- or higher) OR
LN 0015	CHEM 210 (external transfer)
LN 0020	CHEM 211 (C- or higher) OR
LN 0025	CHEM 211 (external transfer)
LN 0030	CHEM 215 (C- or higher) OR

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LN 0035   CHEM 215 (external transfer)
LN 0040   CHEM 216 (C- or higher)
LN 0045   CHEM 216 (external transfer)
LN 0050   Less than Minimum Grade (make no exceptions here)
LN 0060   CHEM 241 and 242
LN 0070   CHEM 260 or 261 (MATSCIE 242 or PHYSICS could be used as alternatives) OR
LN 0075   CHEM 260 or 261 (external transfer)
LN 0090   Excess CHEM (make no exceptions here)

RQ 4705   Related Technical Subjects
Effective FA10/1810 (09/07/2010)
LN 0010   One course from BIOLOGY 162, 163, 172, 174, 195, 207, BIOLCHEM 415, 515, CEE
582
LN 0020   Excess BIOLOGY, BIOLCHEM, CEE (make no exceptions here)
LN 0030   MATSCIE 220 or 250 (C- or higher)
LN 0040   Less than Minimum Grade (make no exceptions here)
LN 0050   Excess MATSCIE 220 or 250 (make no exceptions here)
LN 0060   Engineering Electives
LN 0080   Excess Engineering Electives (make no exceptions here)
LN 0085   CHE 490 and 696

Effective FA08/1710 (09/02/2008)
LN 0010   One course from BIOLOGY 162, 163, 172, 174, 195, 207, BIOLCHEM 415, 515, CEE
582
LN 0020   Excess BIOLOGY, BIOLCHEM, CEE (make no exceptions here)
LN 0030   MATSCIE 220 or 250 (C- or higher)
LN 0040   Less than Minimum Grade (make no exceptions here)
LN 0050   Excess MATSCIE 220 or 250 (make no exceptions here)
LN 0060   Engineering Electives
LN 0070   Advanced Math, Science, Engineering, or Other Technical Electives (6.0 units)
LN 0075   Limit of Research Credits (5.0 units)
LN 0080   Excess Advanced Math, Science, Engineering, or Other Technical Electives (make no
exceptions here)
LN 0090   One course outside CHE (200 level or higher)
LN 0100   Related Technical Subjects total units

Effective WN08/1670 (01/03/2008)
LN 0010   One course from BIOLOGY 162, 163, 172, 174, 195, 207, BIOLCHEM 415, 515, CEE
582
LN 0020   Excess BIOLOGY, BIOLCHEM, CEE (make no exceptions here)
LN 0030   MATSCIE 220 or 250 (C- or higher)
LN 0040   Less than Minimum Grade (make no exceptions here)
LN 0050   Excess MATSCIE 220 or 250 (make no exceptions here)
LN 0060   Engineering Electives
LN 0070   Advanced Math, Science, Engineering, or Other Technical Electives (6 units + 4
(241/242) - 1 (487) required)
LN 0075   Limit of Research Credits (8.0 units)
LN 0080   Excess Advanced Math, Science, Engineering, or Other Technical Electives (make no
exceptions here)
LN 0090   One course outside CHE (200 level or higher)
LN 0100   Related Technical Subjects total units

Effective FA07/1660 (09/04/2007)

CHEMICAL ENGINEERING BSE
Plan Requirements

LN 0010   One course from BIOLOGY 162, 163, 172, 174, 195, 207, BIOLCHEM 415, 515, CEE 582
LN 0020   Excess BIOLOGY, BIOLCHEM, CEE (make no exceptions here)
LN 0030   MATSCIE 220 or 250 (C- or higher)
LN 0040   Less than Minimum Grade (make no exceptions here)
LN 0050   Excess MATSCIE 220 or 250 (make no exceptions here)
LN 0060   Engineering Electives
LN 0070   Advanced Math, Science, Engineering, or Other Technical Electives (6.0 units)
LN 0075   Limit of Research Credits (5.0 units)
LN 0080   Excess Advanced Math, Science, Engineering, or Other Technical Electives (make no exceptions here)
LN 0090   One course outside CHE (200 level or higher)

Effective FA05/1560 (09/06/2005)
LN 0010   One course from BIOLOGY 162, 163, 172, 174, 195, 207, BIOLCHEM 415, 515, CEE 582
LN 0020   Excess BIOLOGY, BIOLCHEM, CEE (make no exceptions here)
LN 0030   MATSCIE 220 or 250 (C- or higher)
LN 0040   Less than Minimum Grade (make no exceptions here)
LN 0050   Excess MATSCIE 220 or 250 (make no exceptions here)
LN 0060   Engineering Electives
LN 0070   Advanced Math, Science, Engineering, or Other Technical Electives (6.0 units)
LN 0080   Excess Advanced Math, Science, Engineering, or Other Technical Electives (make no exceptions here)
LN 0090   One course outside CHE (200 level or higher)

RG 6219   **CHEMICAL ENGINEERING RESIDENCY, GPA REQUIREMENTS**
Effective FA05/1560 (09/06/2005)

RQ 4706   **Chemical Engineering Residency and GPA requirements**
Effective FA08/1710 (09/02/2008)
LN 0010   Minimum 30 units of technical courses at the 300 level or higher
LN 0020   Major GPA. See your departmental advisor for the correct calculation if NFC and REP codes appear on your transcript and your major GPA is less than 2.00.
LN 0030   General Electives (make no exceptions here)
LN 0040   Not Used for Graduation Requirement, Withdrawals, Failures, Incompletes, Not for Credit, Less Than Minimum Grades (make no exceptions here)

Effective WN08/1670 (01/03/2008)
LN 0010   Minimum 30 units of technical courses at the 300 level or higher
LN 0020   Major GPA. See your departmental advisor for the correct calculation if NFC and REP codes appear on your transcript and your major GPA is less than 2.00.
LN 0030   General Electives (make no exceptions here)
LN 0040   Not Used for Graduation Requirement, Withdrawals, Failures, Incompletes, Not for Credit, Less Than Minimum Grades (make no exceptions here)

Effective FA05/1560 (09/06/2005)
LN 0010   Minimum 30 units of technical courses at the 300 level or higher
LN 0020   Major GPA. See your departmental advisor for the correct calculation if NFC and REP codes appear on your transcript and your major GPA is less than 2.00.
LN 0030   General Electives (make no exceptions here)
LN 0040   Not Used for Graduation Requirement, Withdrawals, Failures, Incompletes, Not for Credit, Less Than Minimum Grades (make no exceptions here)

CHEMICAL ENGINEERING BSE
Plan Requirements

Subplans

	Electrical Engineering-Electronic Devices	Energy Systems Engineering	Environmental Engineering	Life Sciences	Materials Science and Engineering	Mechanical Engineering
Career Program	UENG	UENG	UENG	UENG	UENG	UENG
Plan	1250BSE	1250BSE	1250BSE	1250BSE	1250BSE	1250BSE
Subplan	EEED	ENSYS	ENVRNENG	LIFESCI	MATSCIENG	MECHE
RG	In Progress	9822	8714	8713	9030	9031

RG 9822   ENERGY SYSTEMS ENGINEERING CONCENTRATION
Effective FA06/1610 (09/05/2006)

> **RQ 6224   Energy Systems Engineering Concentration**
> Effective FA06/1610 (09/05/2006)
> LN 0010   Technical Electives
> LN 0020   Policy/Law

RG 8714   ENVIRONMENTAL ENGINEERING CONCENTRATION
Effective FA06/1610 (09/05/2006)

> **RQ 5305   Environmental Engineering Concentration**
> Effective FA06/1610 (09/05/2006)
> LN 0010   Local Limit:3 from CEE 428&526 (make no exceptions here)
> LN 0020   Technical Electives
> LN 0030   Policy / Law

RG 8713   LIFE SCIENCES CONCENTRATION
Effective FA06/1610 (09/05/2006)

> **RQ 5304   Life Sciences Concentration**
> Effective FA06/1610 (09/05/2006)
> LN 0010   Required Courses
> LN 0020   Elective Courses

RG 9030   MATERIALS SCIENCE & ENGINEERING CONCENTRATION
Effective FA06/1610 (09/05/2006)

> **RQ 5650   Materials Science & Engineering Concentration**
> Effective FA06/1610 (09/05/2006)
> LN 0010   MATSCIE 350
> LN 0015   MATSCIE 490 - 3 units Limit (make no exceptions here)
> LN 0020   Electives

RG 9031   MECHANICAL ENGINEERING CONCENTRATION
Effective FA06/1610 (09/05/2006)

> **RQ 5651   Mechanical Engineering Concentration**
> Effective FA06/1610 (09/05/2006)
> LN 0010   Required Courses
> LN 0015   MECHENG 490 - 3 units Limit (make no exceptions here)
> LN 0020   Electives