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

<table>
<thead>
<tr>
<th>RQ 4703</th>
<th>Program Subjects</th>
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</thead>
<tbody>
<tr>
<td>Effective FA10/1810 (09/07/2010)</td>
<td></td>
</tr>
<tr>
<td>LN 0010</td>
<td>CHE 230, 330, 341, 342, 343, 344, 360, 485 (C- or higher)</td>
</tr>
<tr>
<td>LN 0020</td>
<td>Less than Minimum Grade (<strong>make no exceptions here</strong>)</td>
</tr>
<tr>
<td>LN 0030</td>
<td>CHE 460, 466</td>
</tr>
<tr>
<td>LN 0040</td>
<td>CHE 487 or (CHE 488 and 489)</td>
</tr>
<tr>
<td>LN 0050</td>
<td>CHE 488 and 489</td>
</tr>
</tbody>
</table>

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 |

<table>
<thead>
<tr>
<th>RQ 4704</th>
<th>Advanced Chemistry</th>
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</thead>
<tbody>
<tr>
<td>Effective WN08/1670 (01/03/2008)</td>
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</tr>
<tr>
<td>LN 0010</td>
<td>CHEM 210 (C- or higher) OR</td>
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<tr>
<td>LN 0015</td>
<td>CHEM 210 (external transfer)</td>
</tr>
<tr>
<td>LN 0020</td>
<td>CHEM 211 (C- or higher) OR</td>
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<tr>
<td>LN 0025</td>
<td>CHEM 211 (external transfer)</td>
</tr>
<tr>
<td>LN 0030</td>
<td>CHEM 215 (C- or higher) OR</td>
</tr>
<tr>
<td>LN 0035</td>
<td>CHEM 215 (external transfer)</td>
</tr>
<tr>
<td>LN 0040</td>
<td>CHEM 216 (C- or higher)</td>
</tr>
<tr>
<td>LN 0045</td>
<td>CHEM 216 (external transfer)</td>
</tr>
<tr>
<td>LN 0050</td>
<td>Less than Minimum Grade (<strong>make no exceptions here</strong>)</td>
</tr>
<tr>
<td>LN 0070</td>
<td>CHEM 260 or 261 (MATSCIE 242 or PHYSICS could be used as alternatives) OR</td>
</tr>
<tr>
<td>LN 0075</td>
<td>CHEM 260 or 261 (external transfer)</td>
</tr>
<tr>
<td>LN 0090</td>
<td>Excess CHEM (<strong>make no exceptions here</strong>)</td>
</tr>
</tbody>
</table>

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 |
CHEMICAL ENGINEERING BSE
Plan Requirements

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 (MATSCE 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

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<td>UENG</td>
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### 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