CHECKLIST FOR GRADUATION REQUIREMENTS IN CHEMISTRY - BACHELOR OF SCIENCE
Minimum of 132 s.h. required for graduation (36 s.h. must be 300/400-level courses)
(Additional hours to total 132 s.h. -- includes second major, minor, and elective hours)

Name_________________________I.D. #____________________H.S. deficiencies: Math ____ Foreign Language ____

**General Studies Requirements**
(General Studies must total at least 58 s.h.)

**FIRST-YEAR CORE:**

<table>
<thead>
<tr>
<th>Course</th>
<th>(s.h.)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>GST 110</td>
<td>4</td>
<td>Global Experience</td>
</tr>
<tr>
<td>ENG 110</td>
<td>4</td>
<td>College Writing</td>
</tr>
<tr>
<td>MTH 112 or 121</td>
<td>4</td>
<td>*MTH 121</td>
</tr>
<tr>
<td>HED 111</td>
<td>2</td>
<td>Contemp. Wellness Issues</td>
</tr>
</tbody>
</table>

**Experiential Learning Requirement (ELR):** (One Unit)
May be met by any one of the following: internship, practicum, co-op, study abroad, student teaching, approved field-based course or documented service, leadership, or individualized learning experience.

**Foreign Language Requirement:**
May be met by one of the following: scoring 4 or 5 on a language Advanced Placement test, or scoring similarly on the IB Higher Level exam; placing beyond FL 122 on the CAPE placement test: completing a 122-level language course; or completing a semester or summer in a university approved program in a non-English speaking country that includes a course in language instruction at the 122 level or above. Only 4 s.h. of language study utilized to meet the graduation requirement apply to Civilization category. Students are expected to complete this requirement by the end of their sophomore year.

**STUDIES IN THE ARTS AND SCIENCES:**
[Transfer students with at least 18 s.h. of transfer credit must complete 32 hours total in Studies in the Arts & Sciences, but may have as few as 7 hours in one or more of the four Studies in the Arts & Sciences areas.]

**Expression** (8 s.h.)
[Eight hours chosen from at least two of the following: literature (in English or foreign languages), philosophy, & fine arts (art, art history dance, fine arts, music, music theatre, & theatre). At least one course must be literature.]

**Civilization** (8 s.h.)
[Eight hours chosen from at least two of the following: history, foreign languages, and religious studies.]

**Society** (8 s.h.)
[Eight hours chosen from at least two of the following: economics, geography, human services - HSS 111 only, political science, psychology, & sociology/anthropology.]

**Science** *CHM 111/113 (Lab:____) *CHM 112/114 (8 s.h.)
[Eight hours chosen from one or more of the following: mathematics, science, and computer science (CSC designation). At least one course must be a physical or biological laboratory science.]

**ADVANCED STUDIES** (Must be outside major.)

**GST Interdisciplinary Seminar** (4 s.h.)
[300-400 level GST course; requires junior/senior status.]

*Required in major; may count in General Studies.

**Major Requirements**
A minimum of 65 s.h. in the following courses is required. This program is ACS certified.

**CHM 111 (3)** General Chemistry I
**CHM 113 (1)** General Chemistry I Lab
**CHM 112 (3)** General Chemistry II
**CHM 114 (1)** General Chemistry II Lab
**CHM 125 (1)** The Chemical Literature
**CHM 205 (4)** Inorganic Chemistry
**CHM 211 (3)** Organic Chemistry I
**CHM 213 (1)** Organic Chemistry I Lab
**CHM 212 (3)** Organic Chemistry II
**CHM 214 (1)** Organic Chemistry II Lab
**CHM 311 (4)** Quantitative Analysis
**CHM 321 (4)** Instrumental Analysis
**CHM 332 (4)** Physical Chemistry I
**CHM 334 (4)** Physical Chemistry II
**CHM 351 (3)** Biochemistry I
**CHM 431 (4)** Advanced Inorganic Chemistry
**CHM 432 (2)** Physical Organic Chemistry
**CHM 461 (1)** Senior Seminar
**CHM 499 (2)** Chemistry Research
**CHM 121 (4)** Calculus & Analytic Geometry I
**MTH 221 (4)** Calculus & Analytic Geometry II
**PHY 113 (4)** General Physics I w/Calculus
**PHY 114 (4)** General Physics II w/Calculus

**Major Total (s.h.)**

Minimum of 65 s.h. in the following courses is required. This program is ACS certified.

*CHM 111 (3) - General Chemistry I
*CHM 113 (1) - General Chemistry I Lab
*CHM 112 (3) - General Chemistry II
*CHM 114 (1) - General Chemistry II Lab
*CHM 125 (1) - The Chemical Literature
*CHM 205 (4) - Inorganic Chemistry
*CHM 211 (3) - Organic Chemistry I
*CHM 213 (1) - Organic Chemistry I Lab
*CHM 212 (3) - Organic Chemistry II
*CHM 214 (1) - Organic Chemistry II Lab
*CHM 311 (4) - Quantitative Analysis
*CHM 321 (4) - Instrumental Analysis
*CHM 332 (4) - Physical Chemistry I
*CHM 334 (4) - Physical Chemistry II
*CHM 351 (3) - Biochemistry I
*CHM 431 (4) - Advanced Inorganic Chemistry
*CHM 432 (2) - Physical Organic Chemistry
*CHM 461 (1) - Senior Seminar
*CHM 499 (2) - Chemistry Research
*CHM 121 (4) - Calculus & Analytic Geometry I
*MTH 221 (4) - Calculus & Analytic Geometry II
**PHY 113 (4) - General Physics I w/Calculus
**PHY 114 (4) - General Physics II w/Calculus

**Major Total (s.h.)**