

# American Chemical Society Certified in Chemistry Emphasis

## CHEMISTRY Major

| Code                       | Title   | Credits   |
|----------------------------|---|-----------|
| <b>Supporting Courses</b>  |   | <b>33</b> |
| CHEM 211<br>& CHEM 213     | Principles of Chemistry I<br>and Principles of Chemistry I Laboratory     |           |
| CHEM 212<br>& CHEM 214     | Principles of Chemistry II<br>and Principles of Chemistry II Laboratory   |           |
| ENV SCI 207                | Laboratory Safety   |           |
| MATH 202                   | Calculus and Analytic Geometry I  |           |
| MATH 203                   | Calculus and Analytic Geometry II   |           |
| MATH 209                   | Multivariate Calculus   |           |
| PHYSICS 201                | Principles of Physics I   |           |
| PHYSICS 202                | Principles of Physics II  |           |
| <b>Upper-Level Courses</b> |   | <b>35</b> |
| <b>Core Courses</b>        |   |           |
| CHEM 302<br>& CHEM 304     | Organic Chemistry I<br>and Organic Chemistry Laboratory I                 |           |
| CHEM 303<br>& CHEM 305     | Organic Chemistry II<br>and Organic Chemistry Laboratory II               |           |
| CHEM 311                   | Analytical Chemistry  |           |
| CHEM 320<br>& CHEM 322     | Thermodynamics and Kinetics<br>and Thermodynamics and Kinetics Laboratory |           |
| CHEM 321<br>& CHEM 323     | Structure of Matter<br>and Structure of Matter Laboratory                 |           |
| CHEM 330<br>& CHEM 331     | Biochemistry<br>and Biochemistry Laboratory                               |           |
| CHEM 410<br>& CHEM 411     | Inorganic Chemistry<br>and Inorganic Chemistry Laboratory                 |           |
| CHEM 413                   | Instrumental Analysis   |           |
| CHEM 495                   | Research in Chemistry (3 credits of Research is required)                 |           |
| Total Credits              |   | 68        |