



CHEMISTRY
Toward a Bachelor of Science Degree

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| Transfer Curriculum 000AS0087 Associate in Science Minimum Hrs. 64 Major Code: 1.1 400501B |
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FIRST YEAR – FALL SEMESTER

| Dept. No. | | Hrs. | Gr. |
|-----------|---|-----------|-----|
| BIO 101 | Biological Science for Science Majors I | 4 | — |
| CHM 151 | Chemical Principles | 5 | — |
| ENG 101 | English Composition I ¹ | 3 | — |
| MAT 131 | Calculus I | 5 | — |
| | | <u>17</u> | |

SECOND YEAR – FALL SEMESTER

| Dept. No. | | Hrs. | Gr. |
|-----------|---|----------|-----|
| CHM 201 | Organic Chemistry I | 5 | — |
| PHY 155 | College Physics I OR PHY 205 University Physics I ² | 5 | — |
| SPE 115 | Speech Humanities Elective ³ | 3 | — |
| | | <u>3</u> | — |
| | | 16 | |

FIRST YEAR – SPRING SEMESTER

| Dept. No. | | Hrs. | Gr. |
|-----------|--|----------|-----|
| CHM 152 | Chemical Principles with Qualitative Analysis | 5 | — |
| ENG 102 | English Composition II ¹ | 3 | — |
| PSC 131 | American Government OR HIS 201 United States History I OR HIS 202 United States History II Fine Arts Elective | 3 | — |
| | | <u>3</u> | — |
| | | 14 | |

SECOND YEAR – SPRING SEMESTER

| Dept. No. | | Hrs. | Gr. |
|-----------|--|----------|-----|
| CHM 202 | Organic Chemistry II | 5 | — |
| PSY 132 | General Psychology General Electives ⁴ Humanities Elective ³ Social Science Elective ³ | 3 | — |
| | | 3 | — |
| | | <u>3</u> | — |
| | | 17 | |

¹ Requires a grade of "C" or higher.

² Students should consult with an advisor and/or appropriate transfer institution catalog to determine if College Physics (PHY 155/PHY 156) or University Physics (PHY 205/PHY 206) is needed for their program.

³ At least one elective course should be selected from Group VII, Integrative Skills, for the A. S. degree.

⁴ Students are strongly advised to take Calculus II and Physics II before transferring. This may be done by taking an extra class during fall or spring or by attending summer sessions. These courses would then satisfy the general electives required hours.

This curriculum guide outlines a recommended or suggested first two years for individuals interested in pursuing a baccalaureate degree in this discipline or possibly one closely related. The General Education component in this recommended guide meets the guidelines established by the Illinois Articulation Initiative General Education Core Curriculum (IAI GECC). With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-V (General Education Component; GECC-IAI) of the curriculum guide (see the Associate in Science general degree requirements worksheet in the John A. Logan College Catalog).

It is recommended that you consult the catalog of the college or university you are considering as a transfer institution to complete a baccalaureate degree. It is also recommended that you consult with an academic advisor at that college or university.

*John A. Logan College reserves the right to modify this curriculum guide as needed.
 Please verify with your academic advisor the accuracy and time lines of this document.*

Effective Date: Fall 2008

Career Opportunities: Chemical laboratory technician, chemistry teacher, analytical chemist, organic chemist, inorganic chemist, physical chemist, environmental chemist, agricultural chemist, chemical analyst, medical researcher chemist, polymer chemist, quality control chemist, colorist, assayer, water purification tester, pollution control technician, forensic scientist, technical writer, sales representative.

Major Employers: Manufacturing firms including pharmaceutical, chemical, food, and agricultural firms, government agencies including U. S. departments of Defense, Commerce, Justice, and Agriculture, medical research laboratories, colleges and universities, schools, research and development laboratories, commercial testing laboratories.