

**College of Science
Department of Chemistry
Bachelor of Science Checksheet
(for students graduating in Calendar Year 2010)**

PART 1: CURRICULUM FOR LIBERAL EDUCATION (CLE) REQUIREMENTS

(CLE requirements and approved courses are available online:

<http://www.cle.prov.vt.edu/guides/index.html>)

(credit hours in parentheses)

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|--|------------------------|
| I. Writing and Discourse (Area 1: 6 credits + ViEWS)
ENGL 1105-1106 ¹ Freshman English
& ViEWS requirement (<i>Fulfilled by courses required for degree.</i>) ² | (3) _____, (3) _____ |
| II. Ideas, Cultural Traditions, and Values (Area 2: 6 credits required)
(Select from approved CLE courses) | (3) _____
(3) _____ |
| III. Society and Human Behavior (Area 3: 6 credits required)
(Select from approved CLE courses) | (3) _____
(3) _____ |
| IV. Scientific Reasoning and Discovery (Area 4) ³
<i>Fulfilled by courses required for degree.</i> | |
| V. Quantitative and Symbolic Reasoning (Area 5) ⁴
<i>Fulfilled by courses required for degree.</i> | |
| VI. Creativity and Aesthetic Experience (Area 6: 3 credits required)
(Select from approved CLE courses; must be a three-credit course.) | (3) _____ |
| VII. Critical Issues in a Global Context (Area 7: 3 credits required)
(Select from approved CLE courses) | (3) _____ |

PART 1: (CLE) credit hour requirement:

24 credits

PART 2: COLLEGE AND DEPARTMENT REQUIREMENTS

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| I. Chemistry Courses (46 credits) | |
| CHEM 1055-1056 ¹ General Chemistry for Majors | (4) _____, (4) _____ |
| CHEM 1065-1066 ¹ General Chemistry for Majors lab | (1) _____, (1) _____ |
| CHEM 2154 ¹ Analytical Chemistry for Majors | (4) _____ |
| CHEM 2164 ¹ Analytical Chemistry for Majors lab | (1) _____ |
| CHEM 2424 Descriptive Inorganic Chemistry | (3) _____ |
| CHEM 2565-2566 ¹ Principles of Organic Chemistry | (3) _____, (3) _____ |
| CHEM 2555 ¹ -2556 Organic Syn-Tech lab | (2) _____, (2) _____ |
| CHEM 3615-3616 Physical Chemistry | (3) _____, (3) _____ |
| CHEM 3625-3626 ² Physical Chemistry lab | (1) _____, (1) _____ |
| CHEM 4014 ² Survey of Chemical Literature | (1) _____ |
| CHEM 4114 Instrumental Analysis | (3) _____ |
| CHEM 4124 Instrumental Analysis Lab | (1) _____ |
| CHEM 4404 Physical Inorganic Chemistry | (3) _____ |
| CHEM 4414 Inorganic Synthesis & Techniques lab | (2) _____ |
| II. Mathematics Courses (16 credits) | |
| MATH 1114 ¹ Elementary Linear Algebra | (2) _____ |
| MATH 1224 ¹ Vector Geometry | (2) _____ |
| MATH 1205-1206 ¹ Calculus | (3) _____, (3) _____ |
| MATH 2214 Introduction to Differential Equations | (3) _____ |
| MATH 2224 ¹ Multivariable Calculus | (3) _____ |

