



**PROGRAMS AND BIBLIOGRAPHY**

<b>Subject</b>	
<b>Code</b>	<b>Name</b>
QG 109	Experimental General Chemistry

<b>Vector</b>
OF:S-5 T:001 P:000 L:003 O:000 D:000 HS:004 SL:004 C:004 AV:N EX:S FM:75%

<b>Pre requirement</b>	None
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<b>Summary</b>
Experiments that illustrate basic techniques and concepts in chemistry.

<b>Program</b>
<ol style="list-style-type: none"><li>1. General laboratory operations, techniques and equipment:<ol style="list-style-type: none"><li>1.1. Understanding workplace safety in chemistry laboratories;</li><li>1.2 Presentations of: equipment, materials and glassware to be used during when performing the proposed experiments;</li><li>1.3. Techniques commonly used in chemistry laboratories: crystallization, decantation, filtration; liquid-liquid extraction; distillation.</li></ol></li><li>2. Experiments representative of themes involving fundamentals in chemistry such as: chemical equilibrium; chemical kinetics; concepts of acids and bases; chemical synthesis; redox reactions; reaction stoichiometry, first law of thermodynamics, etc.</li></ol>

<b>Bibliography</b>
<p>Each experiment offered in the QG109 course is based on a specific set of references, and may be articles from chemistry education journals or books devoted to teaching experimental general chemistry.</p> <p>BAGNO, Marcos. A norma oculta – língua e poder na sociedade brasileira. São Paulo: Parábola Editorial, 2003.</p> <p>KOCH, Ingedore Vilaça e ELIAS, Vanda Maria. Ler e escrever: estratégias de produção textual. São Paulo: Contexto, 2009.</p> <p>RENDA, Vera. Redação acadêmica: do posicionamento autoral (papel de autor) à produção do gênero acadêmico. Leitura e produção escrita na graduação: pesquisa e ensino. Taubaté, SP: Cabral, 2011.</p> <p>THEREZO, Graciema Pires. Redação e Leitura para Universitários. Campinas: Alínea, 2014.</p>

<b>Evaluation criteria</b>
The grading criteria are defined by the Course Instructor as specified in Unicamp's Undergraduate General Statute, Section 1 – General Rules, Chapter V – On the Student

Course Assessment. Attendance of at least 75% is required (\* Absentee allowance will be considered within the provisions of chapter V, section X, article 72 of the Undergraduate General Statute)