

**UNIVERSITY OF CALGARY
DEPARTMENT OF CHEMISTRY
COURSE OUTLINE
Fall 2014**

1. COURSE: : Chemistry 701.31, Analytical Flame Photometry

LEC	DAYS	TIME	ROOM	INSTRUCTOR	OFFICE	PHONE	EMAIL	OFFICE HOURS
L01	TTr	TBA	SB 219	Dr. Thurbide	SB219	220 5370	thurbide@ucalgary.ca	MW 11-1

Blackboard course name: CHEM 701.31 L01 - (FALL 2014) – Analytical Flame Photometry

Departmental Office: SA 109, 220-5341, uginfo@chem.ucalgary.ca

- 2. PREREQUISITES:** Chemistry B.Sc. or equivalent (<http://www.ucalgary.ca/pubs/calendar/current/chemistry.html#6525>).

Note: The calendar description and the Faculty of Science policy on prerequisites and antirequisites is described in section 3.5 C. of the online University Calendar (<http://www.ucalgary.ca/pubs/calendar/current/sc-3-5.html>). Students are responsible to ensure that they meet all prerequisite requirements for each course in which they are registered. Students who do not meet these requirements will be deleted from the course.

- 3. GRADING:** The University policy on grading and related matters is described sections F.1 and F.2 of the online University Calendar (<http://www.ucalgary.ca/pubs/calendar/current/f.html>). In determining the overall grade in the course the following weights will be used:

Reading Notes	30%
Oral Exam	30%
Term Paper	40%
Total	100%

COURSE SYLLABUS and OVERVIEW:

The basic principles of flames, their properties, and how they can benefit analytical sciences, particularly detection, is covered. Photometric measurements and detector construction are presented in detail along with pertinent instrumental / troubleshooting aspects. A comparison of unconventional combustion devices is drawn to apply these principles. Students emerge with a broad appreciation of these flames and their analytical properties.

The marks for each of the course components will be recorded as a numerical score and combined as shown above to arrive at the total numerical score which will then be converted to a letter grade to be reported to the Registrar.

Approximate Grading Scale:

A+	A	A-	B+	B	B-
95% - 100%	90% - 94%	85% - 89%	80% - 84%	75% - 79%	70% - 74%
C+	C	C-	D+	D	F
65% - 69%	60% - 64%	55% - 59%	50% - 54%	45% - 49%	0% - 44%

- 4. MISSED COMPONENTS OF TERM WORK:** The regulations of the Faculty of Science pertaining to this matter are found in the Faculty of Science area of the Calendar in section 3.6: <http://www.ucalgary.ca/pubs/calendar/current/sc-3-6.html>. It is the student's responsibility to familiarize himself/herself with these regulations. See also <http://www.ucalgary.ca/pubs/calendar/current/e-3.html>.
- 5. TEXTBOOK:** *No single textbook. Readings will be drawn from advanced photochemistry texts and monographs on topics in environmental photochemistry, All are available in the library.*
- 6. EXAMINATION POLICY:** Any examinations will be open book. Students should also read the Calendar, Section

G, on Examinations: <http://www.ucalgary.ca/pubs/calendar/current/g.html>.

7. **WRITING:** In this course, the quality of the student's writing will be a factor in their evaluation. See also <http://www.ucalgary.ca/pubs/calendar/current/e-2.html>.

8. OTHER IMPORTANT INFORMATION FOR STUDENTS:

(a) **ACADEMIC MISCONDUCT:** (cheating, plagiarism, or any other form) is a very serious offence that will be dealt with rigorously in all cases. A single offence may lead to disciplinary probation or suspension or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please read the sections of the University Calendar under K. Student Misconduct (<http://www.ucalgary.ca/pubs/calendar/current/k.html>) to inform yourself of definitions, processes and penalties.

(b) **ACADEMIC INTEGRITY:** Do you know what "honesty in academics" is? Check the University website at: <http://www.ucalgary.ca/honesty/>

(c) **ASSEMBLY POINTS:** in case of emergency during class time. Be sure to **FAMILIARIZE YOURSELF** with the information at <http://www.ucalgary.ca/emergencyplan/assemblypoints>.

(d) **ACADEMIC ACCOMMODATION POLICY.** Students with documentable disabilities are referred to the following links:

Calendar entry on students with disabilities: <http://www.ucalgary.ca/pubs/calendar/current/b-1.html>

Disability Resource Centre: <http://www.ucalgary.ca/drc/>

(e) **SAFEWALK:** Campus Security will escort individuals day or night (<http://www.ucalgary.ca/security/safewalk/>). Call **220-5333** for assistance. Use any campus phone, emergency phone or the yellow phones located at most parking lot pay booths.

(f) **FREEDOM OF INFORMATION AND PRIVACY:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPPA). As one consequence, **students should identify themselves on all written work by placing their name on the front page and their ID number on each subsequent page.** For more information see also <http://www.ucalgary.ca/secretariat/privacy>.

(g) **STUDENT UNION INFORMATION:**

VP Academic: **Phone:** 220-3911 **Email:** suypaca@ucalgary.ca.

SU Faculty Rep: **Phone:** 220-3913 **Email:** sciencerep@su.ucalgary.ca

Website: <http://www.su.ucalgary.ca/>

Student Ombudsman: <http://www.su.ucalgary.ca/page/quality-education/academic-services/student-rights>

(h) **INTERNET and ELECTRONIC COMMUNICATION DEVICE Information.** You can assume that in all classes that you attend, **your cell phone should be turned off.** Also, communication with other individuals, via laptop computers, Blackberries or other devices connectable to the Internet is not allowed in class time unless specifically permitted by the instructor. If you violate this policy you may be asked to leave the classroom. Repeated abuse may result in a charge of misconduct.