

**UNIVERSITY OF CALGARY
DEPARTMENT OF PHYSICS AND ASTRONOMY
COURSE INFORMATION SHEET**

Lecture/Time/Session(s): **Astronomy 209: Introduction to Astronomy II – The Cosmos**

Lecture/Time/Session(s): Room SB 105 Saturdays, 1300 – 1730 pm, Spring 2010

1. Instructor: Dr. Ian Lovatt
Office: SB 642, Telephone: 220-8769
Email: ilovatt@mtroyal.ca
Main Physics and Astronomy Office: SB 605, 220-5385
Office Hours: Sat 11:00 a.m. – 1:00 p. m. SB 105

2. Prerequisite: not open to students with credit in Astronomy 205, 213, or Astrophysics 213.

Note: The Faculty of Science policy on pre- and co-requisite checking is outlined on page 203, columns 2 and 3 of the 2009-2010 Calendar. A student may not register in a course unless a grade at least "C" has been obtained in each pre-requisite course; it is the responsibility of students to ensure that their registrations are in order.

3. The University policy on grading and related matters is described on pages 41-53 of the 2009 - 2010 Calendar. In determining the overall grade in the course the following weights will be used:

Final Exam (2 hours)	40%
In-class test	25%
Observing Exercises (4)	20%
Take-home Quizzes (2)	15%

4. Missed Components of Term Work. The regulations of the Faculty of Science pertaining to this matter are outlined on page 204, column 1 of the 2009-2010 Calendar. It is the student's responsibility to familiarize himself/herself with these regulations.

Textbook: *"The Cosmic Perspective, The Solar System"*, 5th Edition, Bennett et al, Pearson Publ.

Department Approval: _____

Date: _____

Associate Dean's Approval for out of regular class-time activity: _____

Date: _____

IMPORTANT/SAFEWALK: Campus Security will escort individuals day or night. Call 220-5333 for assistance. Use any campus phone, emergency phone or the yellow phones located at most parking lot pay booths.

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 the heading "Student Misconduct (pages 49-53 for 2009-2010).

FOIP: This course will be conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIP). 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.

STUDENT UNION INFORMATION: VP Academic **Phone:** 220- 3911 **Email:** suvpaca@ucalgary.ca
SU Faculty Rep. **Phone:** 220 3913 **Email:** sciencerep@su.ucalgary.ca

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Observing Exercises:

The written instructions and the data sheets are on BlackBoard.

Complete the observing assignments with partners (no more than 3 to a group!) Submit each assignment with the names of all the partners. Submit the answers in class, or in the ASTR 2205 mailbox in ST basement.

The due dates are:	1.	Parallax	May 2
	2.	The Diameter of the Sun	May 29
	2.	The Masses of Jupiter and Saturn	June 4
	3.	Stellar Spectra	June 15

Take-home Quizzes:

Each quiz consists of multiple-choice questions, and short-answer questions. Answer the assignments with partners (no more than 3 to a group!). Submit these answers (one set per partnership) in class.

The due dates are:	1.	Quiz #1	May 29
	2.	Quiz #2	June 12

Additional Information on Exams:

All exams are closed book. Calculators are allowed on the test and the exam. Cell phones are not allowed on tests or on exams.

The in-class test (50 minutes, multiple-choice, short answers) will be held in the first hour on June 5.

The two-hour exam will be held on June 26. I will announce the time soon.

Further Information on Course Structure:

The course stresses conceptual understanding without mathematical derivation. Science, however, is quantitative, and we describe the Universe mathematically: consequently, the course will involve some arithmetic.

Tentative Schedule of Lectures

	Topic	Text Chapter Bennett <i>et al</i> , 5 th ed
May 15	The Sun	14
May 22	Properties of Stars Parallax Observing Exercise	15
May 29	Properties of Stars Evolution of Stars Sun Diameter Observing Exercise Take-Home Quiz #1	15 16, 17, 18
June 5	Evolution of Stars Test (1st hour) Jupiter-mass Exercise	16, 17, 18
June 12	Galaxies Stellar Spectra Exercise Take-Home Quiz #2	19, 20, 21, 22
June 19	Cosmology	22, 23

NOTE: The above is a wish-list. We may not have time to cover all of these topics. You are responsible for

- material I cover in class
- the observing exercises, and
- material I EXPLICITLY tell you to read on your own.