



DEPARTMENT OF MATHEMATICS AND STATISTICS
COURSE OUTLINE

Course: AMAT 491 – Numerical Analysis I

Dates: September 11, 2017– December 08, 2017

Lecture	Day	Time	Location	Instructor	Office	Phone	Email	Office Hours
01	TR	15:30-16:45	SA 235	M. Aiffa	MS 432	220-6313	aiffam@ucalgary.ca	TR 14:00-15:00

Desire 2 Learn (D2L) course name: AMAT491 L01 - (Fall 2017) – Numerical Analysis I
Department of Mathematics and Statistics – MS476 Telephone number – 403-220-5210

- Prerequisites:** MATH 311 or 313, CPSC 231 or 217, and one of MATH 381, 367, 377, 349, 353, or AMAT 309; or consent of the Department. See Section 3.5C of Faculty of Science www.ucalgary.ca/pubs/calendar/current/sc-3-5.html and Course Descriptions: www.ucalgary.ca/pubs/calendar/current/course-desc-main.html
- Grading:** The University policy on grading and related matters is described sections F.1 and F.2 of the online University Calendar. In determining the overall grade in the course the following weights will be used:

Assignments (04)	28%
Midterm Examination	25% (Oct. 27 th in class)
Class Participation	07%
Final Examination	40% (To be scheduled by the Registrar)

A passing grade in the final exam (40% or higher) is essential if the student is to pass the course as a whole (grade of C- or better).

The various components above will be assigned a percentage score and will be combined with the indicated weights to produce an overall percentage in the course. The conversion of the percentage grade to a letter grade is done according to the table below. **A grade of 40% or higher in the final examination is essential for an overall grade of C-, or better. If the student's score in the final exam is less than 40%, a D grade or lower will result.**

% Grade	95-100	90-94	85-89	80-84	75-79	70-74	65-69	60-64	56-59	50-55	0-49
Letter Grade	A+	A	A-	B+	B	B-	C+	C	C-	D	F

- 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](#). It is the student's responsibility to familiarize himself/herself with these regulations. See also Section E.6 of the University Calendar. In the unlikely event of a health problem, the [Physician/Counsellor Statement Form](#) must be accompanied by either "[Application for Deferred Final Examinations](#)" or an "[Application for Deferment of Term Work](#)" in order to gain approval for such request. For all other missed term work such as quizzes, assignments or midterms, the [Physician/Counsellor Form](#) must be handed directly to your course instructor for approval.

4. Scheduled out-of-class activities: None have been scheduled.

REGULARLY SCHEDULED CLASSES HAVE PRECEDENCE OVER ANY OUT-OF-CLASS-TIME-ACTIVITY. If you have a clash with this out-of-class-time-activity, please inform your instructor as soon as possible so that alternative arrangements may be made for you.

5. Course Materials: Recommended Texts (all are optional):

- *Scientific Computing with MATLAB and Octave, 4th edition*, by A. Quarteroni, F. Saleri, P. Gervasio, Springer – available at the University Library as an eBook.
- *An Introduction to Numerical Methods and Analysis*, 2nd edition, by J.F. Epperson, Wiley – sold in the University Bookstore, and available at the University Library as an eBook.
- *An Introduction to Numerical Analysis*, by E. Suli & D. Mayers, Cambridge
- *Numerical Analysis, 10th edition*, by R.L. Burden & J.D. Faires, Brooks/Cole

Unless otherwise noted by the instructor, all D2L/course webpage materials including lecture notes, lab worksheets and solutions, will be removed from the course site on January 10, 2018.

6. Examination Policy: Midterm and Final exams are open book, and calculators are permitted. Students should also read the Calendar, [Section G](#), on Examinations.

7. 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 [Section K](#). Student Misconduct to inform yourself of definitions, processes and penalties
- (b) **Assembly Points:** In case of an emergency during class time, be sure to FAMILIARIZE YOURSELF with the information on [assembly points](#).
- (c) **Academic Accommodation Policy:** Students with documentable disabilities are referred to the following links: [Calendar entry on students with disabilities](#) and [Student Accessibility Services](#). Students needing an Accommodation in relation to their coursework or to fulfill requirements for a graduate degree, based on a Protected Ground other than Disability, should communicate this need, preferably in writing, to the Associate Head of Mathematics and Statistics, Jim Stallard, by email at jbstall@ucalgary.ca or by phone at 403-220-3953.
- (d) **Safewalk:** Campus Security will escort individuals day or night (<http://www.ucalgary.ca/security/safewalk/>). Call 403-220-5333 for assistance. Use any campus phone, emergency phone or the yellow phones located at most parking lot pay booths.
- (e) **Freedom of Information and Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPP). 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>.
- (f) **Student Union Information:** [VP Academic](#) Phone: 220-3911 Email: suvpaca@ucalgary.ca.
SU Faculty Rep. Phone: 220-3913 Email: sciencerep@su.ucalgary.ca; [Student Ombudsman](#)
- (g) **Internet and Electronic Device Information:** You can assume that in all classes that you attend, your cell phone should be turned off unless instructed otherwise. 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.

- (h)** At the University of Calgary, feedback provided by students through the Universal Student Ratings of Instruction (USRI) survey provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses (www.ucalgary.ca/usri). Your responses make a difference - please participate in USRI Surveys.