DEPARTMENT OF SCIENCE

COURSE OUTLINE – *CS2720 Formal Systems and Logic in Computing Science*
WINTER 2012

INSTRUCTOR: Reddy Ganta   **PHONE:**   539-2850
OFFICE: J220   **E-MAIL:**   RGantal@gprc.ab.ca

OFFICE HOURS: T R 1- 2:20

PREREQUISITE(S)/COREQUISITE: CS 1140 or equivalent

REQUIRED TEXTS: Discrete Mathematics and Its Applications (Sixth Edition) by Kenneth H. Rosen.

CALENDAR DESCRIPTION: An introductory course to present the tools of set theory, logic and induction, and their use in the practice of reasoning about algorithms and programs. Basic set theory. The notion of a function. Counting. Propositional and predicate logic and their proof system will be studied. Inductive definitions and proofs by induction will be covered along with program specification and correctness.

CREDIT/CONTACT HOURS: (3-1-1.5) 3 credits

DELIVERY MODE(S): Lecture: A3 T R   10:00-11:20 J227
                      Lab: L1 M   15:30-16:50 J101
                  Seminar: S1 M   14:30-15:20 J227

TRANSFERABILITY: See www.gprc.ab.ca and www.acat.gov.ab.ca
** Grade of D or D+ may not be acceptable for transfer to other post-secondary institutions and may not meet the prerequisite requirements for other math courses. Students are cautioned that it is their responsibility to contact the receiving institutions to ensure transferability

GRADING CRITERIA:

GRANDE PRAIRIE REGIONAL COLLEGE			
GRADING CONVERSION CHART			
Alpha Grade	**4-point Equivalent**	**Percentage Guidelines**	**Designation**
A$^+$	4.0	95 – 100	**EXCELLENT**
A	4.0	90 – 94	
A$^-$	3.7	85 – 89	**FIRST CLASS STANDING**
B$^+$	3.3	80 – 84	
B	3.0	75 – 79	**GOOD**
B$^-$	2.7	70 – 74	
C$^+$	2.3	66 – 69	**SATISFACTORY**
C	2.0	62 – 65	
C$^-$	1.7	58 – 61	
D$^+$	1.3	55 – 57	**MINIMAL PASS**
D	1.0	50 – 54	
F	0.0	0 – 49	**FAIL**
WF	0.0	0	**FAIL, withdrawal after the deadline**

EVALUATIONS: Assignments   16%
                   Quizzes   20%
                   Midterm   26% TBA
                   Final Exam   38% April 16-26 inclusive including Saturdays and evenings

STUDENT RESPONSIBILITIES: Students are responsible for all lecture material, labs and readings. Students are expected to practice the material by doing problems from the textbook. Assignments are not accepted if handed in late. If the midterm is missed due to illness the weight will be put on the final (ie. the final will be worth 64%). If the final is missed due to illness it will be deferred (see calendar for information). A doctor's note and a phone message or email will be required in both cases.

STATEMENT ON PLAGIARISM AND CHEATING: Refer to the Student Conduct section of the College Admission Guide at http://www.gprc.ab.ca/programs/calendar/ or the College Policy on Student Misconduct: Plagiarism and Cheating at www.gprc.ab.ca/about/administration/policies/**

**Note: all Academic and Administrative policies are available on the same page.

COURSE SCHEDULLE/TENTATIVE TIMELINE:

Week 1	Introduction
Week 2	Chapter 1
Week 3	Chapters 1
Week 4	Chapter 1
Week 5	Chapter 2
Week 6	Chapter 2
Week 7	Chapter 3
Week 8	Midterm
Week 9	Midterm Review and Chapter 4
Week 10	Chapter 4
Week 11	Chapter 8
Week 12	Chapter 8
Week 13	Chapter 11
Week 14	Chapter 12