


FOUNDATION PROGRAM | MATH UNIT
COURSE SYLLABUS
TERM-1 (2016-2017)

Course Title : **INTERMEDIATE ALGEBRA**

Course Code : **FPM 100 – Pre Foundation Math**

Teaching Load : **Two (2) hours weekly**

Mr. Syed Salman Mahmood
(Math Coordinator)
Email : syed_mahmood@du.edu.om
Tel: 23 23 71 75, Ext. 7175
Office: 224 A

Instructors:
Mr. Mohammad Mahmood Mustafa
m_mustafa@du.edu.om

Dr. Zahid Shareef
Zahid@du.edu.om

Wesam Samih Al-Karadsheh
Wesam@du.edu.om

Waqar Ahmed Khan
wkhan@du.edu.om

Dr. Wajdi Hamza Dawood Al Redany
walredany@du.edu.om

Tareq Al Khshpan
kalkhshpan@du.edu.om

Recommended Text Book:

College Algebra by Raymond.A.Barnett, Michael R. Ziegler, Karl. E. Byleen Mc Graw Hill, November 1999, 7th Edition.

DU – Vision:

Dhofar University aspires to occupy a recognized position among the institutions of quality higher education.

DU – Mission:

Dhofar University strives to achieve excellence in teaching, research and community service, in an open learning environment conducive to creativity and innovation and to the acquisition of cutting-edge professional knowledge.

DU - Values:

The core values of Dhofar University are:

1. Academic excellence
2. Individual responsibility
3. Continuous improvement
4. Active citizenship
5. Long-Life learning

□ رؤية البرنامج :

يتطلع البرنامج التأسيسي إلى احتلال مكانة مرموقة بين البرامج التأسيسية في السلطنة من خلال توفير تعليم ذات جودة عالية

□ رسالة البرنامج :

يسعى البرنامج التأسيسي لتزويد الطلبة بتعليم ذات جودة عالية يستند الى معايير المخرجات التعليمية في بيئة تشجع على التميز و التعلم المستمر.

□ قيم البرنامج :

- التميز الأكاديمي
- تحمل المسؤولية الفردية
- تحسين القدرات الذاتية باستمرار
- المواطنة الفاعلة
- التعلم ال

Math Unit – Mission:

Our mission is to provide students with a learning environment in which they can master the skills and concepts necessary for their success in college level Mathematics.

Learning Objectives:

- * Acquiring the knowledge necessary for further study of mathematics at higher levels and for pursuing the study of other curricular subjects.
- * Mastering the language of mathematics and using it to solve real-life problems that may face students now or in the future.
- * Enhancing students' intellectual abilities and self-confidence, and encouraging renovation and innovation by allowing them to uncover relationships and conceive mathematical patterns and models.
- * Developing the mathematical sense in students and employing mathematical methods in life and in other subjects.

Learning Outcomes:

At the end of the course, the student will be able to:

- Identify the set of odd and even numbers.
- Apply the Basic Mathematical Operations on Real Numbers.
- Find the Prime Factors of Real Numbers.
- Identify Fractions and can apply Basic Operations on Fractions.
- Identify the Set Notations and their Subsets, the different Set Names, and apply Operations.
- Define Polynomial types, apply the Basic Operations on Polynomials, combining like terms and Multiplying Binomials.

Academic Honesty:

Students are expected to complete all work with the highest standard of honesty and integrity. Plagiarism, forgery, cheating or any form of academic misconduct will not be tolerated. Any of the above may cause a student's final course grade to be lowered significantly or the student may receive a failing grade, depending on the severity of the offence. Plagiarism is the presentation of the work of another as one's own work. (Refer to DU catalogue)

Plagiarism:

Plagiarism is a particular form of cheating and you must avoid it at all costs. Any case of plagiarism will be given zero in that section of assessment.

Class Management:

- Students are required to arrive to all classes on time.
- Use of mobile phone is not allowed during the lecture time. You must, therefore, switch off your mobile phone before you enter the lecture room.

Attendance Regulation:

Level	1 st warning Hours of absences	Final warning Hours of absences	Withdrawal
Math 1 & 2	5%	15%	25%

Students will receive copies of warning letters in their DU email.

Evaluation and Grading:

Students who show dedication and commitment to their studies and class work, homework and Presentation will be noted. In case of borderline grading, student's efforts will be reviewed.

Mid Term	Final Exam	CA	Final Grade
20%	20 %	10 %	50 %

Continuous Assessment (CA) (10%):

Attendance + Class Participation + Assignments	10 %
---	------

Useful Links / Websites:

http://www.wtamu.edu/academic/anns/mps/math/mathlab/int_algebra/index.htm

<http://www.purplemath.com/modules/index.htm>

<http://library.thinkquest.org/20991/alg2/index.html>

<http://math2.org/math/trig/identities.htm>

<http://library.thinkquest.org/20991/alg2/trig.html>

<http://msenex.redwoods.edu/math/courses/math120.php>

<http://archives.math.utk.edu/topics/algebra.html>

Study Plan – Pre Foundation Math – Topics to be covered during Term-1

Weeks (Dates)	Topics To Be Covered	Remarks
Week 1 (04/09/16 – 08/09/16) Week 2 (11/09/16 – 15/09/16)	Orientation Registration & Eid Al Adha	
Week 3 (18/09/16 – 22/09/16)	1.1 The Numbers 1.2 Even and Odd Numbers 1.3.1 Rules of Addition 1.3.2 Rules of Subtraction	
Week 4 (25/09/16 – 29/09/16)	1.3.3 Rules of Multiplication 1.3.4 Rules of Division 1.4 BODMAS	
Week 5 (02/10/16 – 06/10/16)	2.1 Prime Factors 2.2 Factor Tree 3.1 Fractions 3.2 Numerator & denominator	
Week 6 (09/10/16 – 13/10/16)	3.3 Equivalent Fractions 3.4 Adding of Fractions	
Week 7 (16/10/16 – 20/10/16)	3.5 Adding of Fractions with different Denominators	
Week 8 (23/10/16 – 27/10/16)	Mid-Term Exam Week	Mid-Term Exam
Week 9 (30/10/16 – 03/11/16)	3.6 Multiplication and Division of Fractions	
Week 10 (06/11/16 – 10/11/16)	4.2.1 Polynomials: combining Like Terms (Addition & Subtractions)	
Week 11 (13/11/16 – 17/11/16)	4.2.2 Multiplying Polynomials	
Week 12 (20/11/16 – 24/11/16)	4.2.3 Special Products	
Week 13 (27/11/16 – 01/12/16)	<u>Continue:</u> 4.2.3 Special Products	
Week 14 (04/12/16 – 08/12/16)	Revision & Final Exam Week	Final Exam
Week 15 (11/12/16 – 15/12/16)	Marking, Moderation & Finalizing Grades	