



(Vision for the Future)

## **FOUNDATION PROGRAM**

### **Course Syllabus**

### **FPM 100: FP Math Pre Level**

#### **(A) University Vision, Mission and Values**

##### **Vision**

Dhofar University aspires to occupy a distinct position among the leading institutions of higher education in the Arab Region.

##### **Mission**

To provide quality teaching and learning, conduct research in an inspiring environment conducive to creativity and innovation, and engage with the community.

##### **Core Values**

The core values of Dhofar University are:

- **Excellence** – Our commitment to excellence drives us to do better consistently.
- **Integrity** – We believe in honesty and coherence between our words and actions.
- **Responsibility** – We accept full responsibility for our actions all the times.
- **Commitment** – We are committed to give our best and deliver what we promise.
- **Transparency** – For us, transparency is the foundation of trust.
- **Adaptability** – We believe adaptability is the key to success in an ever-changing environment.

#### **(B) Foundation Program Vision and Mission**

##### **Vision**

Foundation Program aspires to become one of the leading GFPs in the Arab region, equipping students to be more competitive in colleges inside and outside Oman.

##### **Mission**

To expose students to rich, engaging curricula using innovative teaching and learning strategies that enable students to tap their learning potential to become autonomous, life-long learners

#### **(C) Course/ Instructor/ Coordinator Information**

Course Code	:	FPM 100
Course Title	:	FP Math Pre Level
Credit Hours	:	NA [4 Teaching Hours per week]
Pre-requisite	:	NA
Co-requisite	:	NA
Delivery Mode	:	Lecture/Tutorial

**Course Schedule (For all sections):**

Section	Class Room	Days	Time	Instructor Name	Email	Office Room	Office Telephone
1	COMC XXXA	2 (ST)	08:00- 10:00	TBD	TBD	FP XXXA	TBD
2	COMC XXXA	2 (MW)	10:00- 12:00	TBD	TBD	FP XXXA	TBD

Course Coordinator : Mohammad Mustafa  
 Email : [m\\_mustafa@du.edu.om](mailto:m_mustafa@du.edu.om)  
 Office Extension : 7570  
 Office Room : 224 A

**(D) Course Description**

The aim of this course is to help incoming students to understand basic concepts of Mathematics. This four-hour course reinforces basic concepts and terminologies through the medium of the English language. The course covers real number systems, basic rules of addition, subtraction, multiplication and division, Properties of basic arithmetic operations, Polynomials, Factoring Polynomials, and reducing rational Expressions, first-degree equations and inequalities.

**(E) Course Learning Outcomes:**

Course Learning Outcomes		Assessment Tools
1	Identify set notations and their subsets and use different set names	FA/ Quiz 1
2	Apply basic mathematical operations on real numbers	FA / Quiz 1/ Summative/ Midterm
3	Identify properties of the four-basic arithmetic operations and use them to simplify expressions. (Commutative, associative, distributive and identity properties)	FA / Quiz 1/ Summative/ Midterm
4	Reducing rational expressions using factoring methods	FA/ Quiz 2 / Summative/ Final
5	Solve real-life problems related to equations inequalities	Summative/ Final
6	Solve first degree equations (involving fractions and radicals)	FA / Quiz 2, Assignment 2/ Summative/ Final
7	Solve Inequalities, draw a graph, and write the interval notation and use it to solve real-life problems	FA /Assignment 2/ Summative/ Final
8	Define polynomials, degree of a polynomials, and classify polynomials	Summative / Midterm
9	Perform basic mathematical operations on polynomials	FA / Assignment 1/ Summative/ Midterm
10	Factor polynomials using GCF, grouping, 2nd degree polynomials, and difference between two squares rules.	FA / Assignment 1/ Summative/ Midterm
General Study Skills		
1	Time Management and Students' Responsibility	FA / Quiz Skill
2	Note Taking	FA / Quiz Skill

**(F) Program Learning Outcomes: Refer to Scope and Sequence Document**

**(G) Additional Materials, References and Resources**

Textbook 1)	Algebra for College Students: Jerome Kaufmann, Karen L. Schwitter, Thomson Brooks/Cole, 2007, 10 <sup>th</sup> Edition, ISBN 1-285- 19578-7
Reference Books	NA
Handouts	Moodle, OneDrive, Math Worksheets
Useful Websites	Kuta Software
Software(s)	NA
Other Resources	PPT, Videos
e-learning Resources	Moodle, OneDrive

**(H) Teaching/ Learning Strategies and Use of Technology**

The lecture would include tutorials; homework; assignments; in-class participation; and short quizzes. Students need to refer the textbooks and/or internet sites together with the handouts to update their knowledge and cope up with the assignments and other assessments. Regular class attendance is important and will be monitored. Students are expected to develop their skills for at least 4 hours a week.

**(I) Weekly Course Content Outline: Refer to Pre Level study plans for specific details.**

Week No.	Topics/Activities to be Covered
1	Placement Tests/Registration
2	<ul style="list-style-type: none"> <li>• Sets &amp; Real numbers</li> <li>• Basic mathematical Operations on real numbers</li> </ul>
3	<p><b>Complete: Operations on real numbers.</b></p> <ul style="list-style-type: none"> <li>• Properties of basic arithmetic operations. (Commutative, Associative, Distributive and Identity properties).</li> </ul> <p><b>Quiz Study Skills 1:</b> Time Management and Students' Responsibility</p>
4	<ul style="list-style-type: none"> <li>• Polynomials <ul style="list-style-type: none"> <li>• Definition</li> <li>• Degree of a polynomials</li> <li>• Sums and Differences.</li> </ul> </li> <li>• Multiplying polynomials</li> </ul>
5	<ul style="list-style-type: none"> <li>• Common Factor</li> <li>• Factoring by grouping</li> </ul> <p><b>Quiz Study Skill 2:</b> Time Management and Students' Responsibility</p>
6	<ul style="list-style-type: none"> <li>• Difference of two squares</li> <li>• Factoring trinomials</li> </ul>
7	Midterm Exams
8	<ul style="list-style-type: none"> <li>• Reducing rational expressions.</li> <li>• Solving First Degree Equations</li> </ul>
9	<p>Complete: Solving First Degree Equations</p> <ul style="list-style-type: none"> <li>• Use equations to solve simple real-life problems)</li> </ul>
10	<ul style="list-style-type: none"> <li>• Equations involving Fractional forms.</li> <li>• Equations Involving Radicals</li> </ul> <p><b>Quiz Study Skill 3:</b> Note Taking</p>
11	<ul style="list-style-type: none"> <li>• Inequalities</li> <li>• More on Inequalities and problem solving. (Use inequalities to solve simple real-life problems.)</li> </ul>
12	Final Exams

## **(J) Assessment Tools and Schedule**

<b>Assessment Tools</b>	<b>Grade Proportion</b>	<b>Week/Dates</b>
Midterm exam	30%	7 <sup>th</sup> week
Continuous Assessment	30%	Ongoing in class
Final Exam	40%	End of Term
<b>Total</b>	<b>100%</b>	

## **(K) Important Information for Students**

### **1) University Academic Integrity Policy**

The university requires its student to adhere to the academic integrity policy and avoid indulgences in the acts of cheating, collusion or plagiarism during examinations or continuous assessment. Any act of academic misconduct will invite sanctions as per DU policy.

(Please refer to DU student handbook and Academic Integrity Policy for detailed guidelines.)

### **2) Class Attendance Rules**

Attendance of all classes and course-related activities is obligatory. The maximum absences allowed for a student is 25% of the total number of classes of a particular course. Before reaching the withdrawal stage, LOGSIS warns the students by way of three warnings sent to their DU email account by DAR. This email messages to students is a formal communication of the university with its students so students are strongly advised to access their DU email accounts on daily basis to track their absences, along other important things, to respond appropriately when needed.

### **3) The warnings of absences are as follows:**

- a) **First warning:** this is when a student's absence reaches **07%** of the total number of classes of a particular course.
- b) **Second warning:** this is when a student's absence reaches **14%** of the total number of classes of a particular course.
- c) **Final warning:** this is when a student's absences reach **21%** of the total number of classes of a particular course.

If the absence crosses 25%, the student will be dismissed from the course and a "WA" will be shown in his/her transcript against the dismissed course and dismissal letter will be sent to his DU email account.

### **4) Withdrawal from course: NA**

### **5) End-Term Evaluation by Students**

All students are required to complete "Online Evaluation" of Course, Graduate Attributes and Course Instructor at the end of the term. The specific dates for evaluation shall be announced by the course instructor in the class. It is mandatory for the students to complete this online evaluation, without which their final grades shall not be announced.

### **6) Additional information, if any**

For the benefits of the group, all students are asked to participate actively in all aspects of the course. Those wishing to succeed must:

- Arrive on time and attend all classes.
- Complete all work on assigned dates.
- Complete all writing assignments on assigned dates.

- Take part in oral discussion and make presentations as assigned.
- Participate in class on a regular basis.
- Never miss quizzes, tests, presentations and other alternative assessments as they prepare you for your midterms and also finals.

Students are promoted to Level 1 if their Cumulative Final Grade is 50 or above.

If a student misses any test (midterm/final), the student will only be given a make-up test with a valid excuse approved by the FPC.