

**Course number, title and credits; total time allocation**

Course Letter/Number	<u>MAT 020</u>	Credits	<u>4</u>	Title	<u>Prealgebra</u>
Lecture/Discussion	<u>4</u>	hrs/semester	Lab	hrs/semester	Clinical
				er	hrs/semester

**Catalog Description and Pre- and Co-requisites (Same as taxonomy and catalog)**

Course reviews the arithmetic of fractions, decimals, and signed numbers with applications. Students will learn the mathematics of proportion and percent with applications, basic statistical graphs and charts, geometry and measurement (including the metric system), and introductory algebraic concepts. The mathematics department recommends that the prerequisite not be more than two years old. If the prerequisite is more than two years old, then the recommendation is that the course placement exam be taken or the prerequisite be retaken to ensure the success of the student.

Prerequisite: MAT 010\*

Prerequisite: MAT 010, with 2.0 minimum or PRE EQV

**Knowledge, Skills and Abilities Students Acquire from this Course (Educational Objectives)**

1. Arithmetic of fractions and decimals with applications.
2. Arithmetic of signed numbers with applications.
3. Mathematics of ratio, proportion and percentage with applications.
4. Mathematics of geometry and measurement including: dimensional analysis, metric system, and geometric calculations of perimeter, area and volume of common geometric figures.
5. Introductory algebraic processes including: simplifying and evaluating linear expressions and solving basic linear equations.

**Associate Degree Outcomes Addressed in this Course (These must appear in course syllabus.)**

- ADO 3: Demonstrate computational skills and mathematical reasoning

**Units/topics of Instruction**

See course description and educational objectives.

**Instructional Techniques and Procedures**

Although techniques vary from instructor to instructor, this course usually consists of mostly lecture and group work.

**Instructional Use of Computer or Other Technology**

A basic scientific calculator is recommended, but not required.. The instructor may choose to incorporate the use of MyMathLab in homework, quiz and test assignments.

**Instructional Materials and Costs to Students**

The instructional material for this course consists of the textbook and a basic scientific calculator (possibly MyMathLab)

### Skills and abilities students should bring to the course

Able to read	<input checked="" type="checkbox"/> a limited amount of material <input type="checkbox"/> an average amount of material <input type="checkbox"/> an above average amount of material	Able to compute	<input checked="" type="checkbox"/> basic, pre-algebraic problems <input type="checkbox"/> simple algebraic problems <input type="checkbox"/> higher order mathematical problems
Able to read	<input checked="" type="checkbox"/> relatively easy material <input type="checkbox"/> moderately difficult material <input type="checkbox"/> technical or sophisticated material	Able to write	<input checked="" type="checkbox"/> short compositions <input type="checkbox"/> medium length compositions <input type="checkbox"/> lengthy compositions
Able to use technology	<input checked="" type="checkbox"/> keyboard skills/familiar with computer <input checked="" type="checkbox"/> computer application <input checked="" type="checkbox"/> web navigation	Other necessary abilities	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

### The course is usually scheduled

Day: ☒ Fall ☒ Winter ☒ Spring

Evening: ☒ Fall ☒ Winter ☒ Spring

Prepared by \_\_\_\_\_

Date \_\_\_\_\_

Approved by Dept. \_\_\_\_\_

Date \_\_\_\_\_

Approved by Dean \_\_\_\_\_

Date \_\_\_\_\_

Approved by Curr. Comm. \_\_\_\_\_

Date \_\_\_\_\_

(Last names, please)

Form Revised 12/4/00