Moberly Area Community College  
Common Syllabus  

MTH095 Transitional Algebra  

Current Term  

Instructor:  
Office number:  
Office hours:  
Contact information:  
Classroom number:  
Class days and time:  

Catalog Description:  MTH095 Transitional Algebra (3-0-3)  
Transitional Algebra course material includes linear equations and inequalities, linear systems, exponents, operations with polynomials, factoring, solving quadratic equations by factoring, radical expressions, operations with radicals, rational and radical equations, and an introduction to relations and functions.

Prerequisite:  Eligible placement score, grade of “C” or higher in MTH010.

Text:  The text is an ebook included with the class. There is no print option available in the MACC bookstore.  
Title:  Intermediate Algebra  
Author:  Lial, Hornsby, McGinnis  
Publisher:  Pearson

Other Required Materials:  scientific calculator (recommended TI-30XS Multiview)

Purpose of Course:  
Transitional Algebra is the continued development of algebraic and analytical skills necessary for more advanced courses. This is accomplished through a demonstration of methods, homework, group work, computer work as well as formal and informal assessments. Through improved math skills, the student is better prepared to be successful in his/her subsequent courses.

Course Objectives:  
Upon successful completion of this course, students will be able to understand and solve problems involving:

- Linear equations in one and two variables  
- Linear inequalities in one variable  
- Function notation and function operations  
- Exponent rules  
- Polynomial operations  
- Factoring  
- Zero-factor property  
- Rational expressions  
- Complex fractions  
- Radical expressions
• Rational exponents  
• Operations with radicals  
• Complex numbers 

Course Content:  
Chapter 1 – Linear Equations, Inequalities and Applications  
Chapter 2 – Linear Equations, Graphs and Functions  
Chapter 4 – Exponents, Polynomials, and Polynomial Functions  
Chapter 5 – Factoring  
Chapter 6 – Rational Expressions and Functions  
Chapter 7 – Roots, Radicals and Root Functions  

Assessment of Student Learning:  
Grades will be calculated in the Canvas gradebook where 70% mastery will be necessary to meet the prerequisite for the subsequent math course. Grades will be updated at least after each chapter test throughout the semester in the Canvas gradebook.  
The grading scale will be structured as follows:  
  A - 90 - 100%  
  B - 80 - 89%  
  C - 70 - 79%  
  D - 60 - 69%  
  F - 59% or below  
It is the instructor’s prerogative to replace one test score during the semester with a retake. The retake score will be used for that chapter test, better or worse.  
Points will be accumulated by:  
  Homework/Quizzes: 20%  
  Chapter/Unit Tests: 60%  
  Final Exam: 20%  

Expected Study Time Commitments: Students should expect to spend approximately 2 to 4 hours per week studying, reading, and working on assignments for each registered credit hour. For example, 6 to 12 study hours per week may be expected for a 3 credit hour class. 

Make-up and late work: Per instructor’s policy  

Tardiness: Per instructor’s policy in relationship to points given in the course and not in relationship to attendance. 

Schedule of Student Assignments/Activities:  
Instructors will identify a Student Assignment/Activities schedule. Instructors have the prerogative to construct the schedule by class periods or weeks in order to cover the entire curriculum. A sample schedule is attached.
Statement to Connect Course with General Education Outcomes:
In compliance with MACC’s General Education outcomes, the student who successfully completes this course will be able to:

- **Higher Order Thinking:** Students will demonstrate the ability to distinguish among opinions, facts, and inferences; to identify underlying or implicit assumptions; to make informed judgments; to solve problems by applying evaluative standards; and to reflect upon and refine those problem-solving skills. This outcome involves creative thinking, critical thinking, and quantitative literacy.

College Policies:

**Academic Dishonesty:** MACC board policy is as follows: “Academic dishonesty by students damages institutional credibility and unfairly jeopardizes honest students; therefore, it will not be tolerated in any form.” Forms of academic dishonesty include but are not limited to the following: violations of copyright law, plagiarism, fabrication, cheating, collusion, and other academic misconduct. Incidents of dishonesty regarding assignments, examinations, classroom/laboratory activities, and/or the submission of misleading or false information to the College will be treated seriously. The procedure for handling academic dishonesty is outlined in the Student Handbook (*Policy Handbook, M.010*). In cases of alleged academic dishonesty, the burden of proof is on the student, not on the instructor.

**Attendance Policy:** Students are expected to attend all class sessions for which they are enrolled. The College reserves the right to drop or withdraw students from courses due to lack of attendance.

Students need to be aware that dropping/being dropped from a course and their last date of attendance in the course may impact their financial aid.

MACC faculty are required to track attendance and report lack of attendance. An instructor must complete the appropriate steps to drop a student within one week following the student’s violation of the attendance policy. Additionally, a student’s attendance rate will be calculated based upon the first day the academic session begins (not the student’s date of enrollment in the course). If a student does not attend a course as defined below, the student will be dropped as “Never Attended.”

**Term Length Drop Calculations**

16-week: Any student who misses two (2) consecutive weeks of class will be dropped from the course by the instructor unless acceptable justification is provided by the student and the student still has the opportunity to be successful in the course.

8-week: Any student who misses one (1) consecutive week of class will be dropped from the course by the instructor unless acceptable justification is provided by the student and the student still has the opportunity to be successful in the course.
4-week: Any student who misses two (2) consecutive days of class will be dropped from the course by the instructor unless acceptable justification is provided by the student and the student still has the opportunity to be successful in the course.

Intersession: Any student who misses one (1) day of class will be dropped from the course by the instructor unless acceptable justification is provided by the student and the student still has the opportunity to be successful in the course.

Acceptable justification may include, but is not limited to, family emergencies, illness or injury, college-approved co-curricular and extra-curricular activities, and religious holidays.

**Definition of Course Attendance**

<table>
<thead>
<tr>
<th>Course Type</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>In Seat Course</td>
<td>Physically attending scheduled, face-to-face, class meetings</td>
</tr>
<tr>
<td>Virtual Course</td>
<td>Being present, via appropriate platform, for scheduled class meetings/activities</td>
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</tbody>
</table>
| Hybrid Course     | Physically attending scheduled, face-to-face, class meetings and active participation in the online portion of the course which may include any or all of the following:  
• Completion of quizzes or exams during class meetings and online  
• Submission of assignments during class meetings and online  
• Participation in discussions during class meetings and online |
| Online Course     | Active participation in an online course includes the following:  
• Completion of quizzes or exams  
• Submission of assignments  
• Participation in threaded discussions |

Simply logging into the Learning Management System (Canvas) and/or accessing the course and course related material does not constitute active participation for the online component of hybrid courses or for online courses. *(Policy Handbook, l.090 & M.095)*

**Student Email:** MACC Mail is the official student email system at MACC. Official college communication is sent via this email system. Students are responsible for checking their MACC Mail account regularly. Students may also receive notifications and reminders from MACC through the online learning platform. However, students should remain aware that the online learning platform messaging system and MACC Mail (student email) system are two separate systems.

**ADA Statement:** Students who have disabilities that qualify under the Americans with Disabilities Act may register for assistance through the Office of Access and ADA Services. Students are invited to contact the Access/ADA Office to confidentially discuss disability information, academic accommodations, appropriate documentation and procedures. The Office of Access and ADA
Services is located in the Main Library and the phone number is (660) 263-4110 ext. 11240. Students may also contact the Columbia office at 573-234-1067 ext. 12120.

**Title IX Statement:** MACC maintains a strict policy prohibiting sexual misconduct in any form, including sexual harassment, sexual discrimination, and sexual violence. All MACC employees, including faculty members, are considered mandated reporters of sexual misconduct and as such are expected to contact the Title IX Coordinator when they become aware, in conversation or in writing, of an incident of sexual misconduct. For more information on this policy or to learn about support resources, please see [http://www.macc.edu/sexual-misconduct-policy](http://www.macc.edu/sexual-misconduct-policy) or contact Ms. Cheryl Lybarger, MACC’s Title IX Coordinator, at 660-263-4110, ext. 11369 or CherylLybarger@macc.edu.
# Tentative Schedule for MTH095 – Transitional Algebra

This content is a minimum requirement.

<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Syllabus 1.1-Linear Equations in One Variable</td>
<td>1.3-Applications of Linear Equations 1.4-Further Applications of Linear Equations</td>
</tr>
<tr>
<td>2</td>
<td>1.2-Formulas 1.5-Linear Inequalities in One Variable</td>
<td>Chapter 1 Test</td>
</tr>
<tr>
<td>3</td>
<td>2.1-Linear Equations in Two Variables</td>
<td>2.2-The Slope of a Line</td>
</tr>
<tr>
<td>4</td>
<td>2.3-Writing Equations of Lines</td>
<td>2.5-Introduction to Relations and Functions</td>
</tr>
<tr>
<td>5</td>
<td>2.6-Function Notation and Linear Functions</td>
<td>Chapter 2 Test</td>
</tr>
<tr>
<td>6</td>
<td>4.1-Integer Exponents 4.2 -Scientific Notation</td>
<td>4.3-Adding and Subtracting Polynomials 4.4-Polynomial Functions</td>
</tr>
<tr>
<td>7</td>
<td>4.5-Multiplying Polynomials 4.6-Dividing Polynomials</td>
<td>Chapter 4 Test</td>
</tr>
<tr>
<td>8</td>
<td>5.1-Greatest Common Factor and Factor by Grouping</td>
<td>5.2-Factoring Trinomials</td>
</tr>
<tr>
<td>9</td>
<td>5.3-Special Factoring 5.4-A General Approach to Factoring</td>
<td>5.5-Solving Equations by the Zero-Factor Property</td>
</tr>
<tr>
<td>10</td>
<td>Review</td>
<td>Chapter 5 Test</td>
</tr>
<tr>
<td>11</td>
<td>6.1-Rationals Expressions; Multiplying and Dividing</td>
<td>6.2 – Adding and Subtracting Rational Expressions</td>
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<tr>
<td>12</td>
<td>6.3-Complex Fractions</td>
<td>Review Rational Expressions</td>
</tr>
<tr>
<td>13</td>
<td>7.1-Radical Expressions 7.2-Rational Exponents</td>
<td>7.3-Simplifying Radicals</td>
</tr>
<tr>
<td>14</td>
<td>7.4-Adding and Subtracting Radical Expressions 7.5-Multiplying and Dividing Radical Expressions</td>
<td>Review</td>
</tr>
<tr>
<td>15</td>
<td>Chapter 6/7 Test</td>
<td>Final Exam Review</td>
</tr>
<tr>
<td>16</td>
<td>FINALS WEEK</td>
<td></td>
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</table>

**Instructors:** Please see posted curriculum for details on each section in the Math Department Shell. If time permits additional applications may be included at the end of the semester after the minimum has been covered.