

All Fields Report

Basic Course Information	
College	Cañada College
Discipline	MATH-Mathematics
Course Number	820
Full Course Title	Just-In-Time Support for Intermediate Algebra
Catalog Course Description	A review of the core prerequisite skills, competencies, and concepts for intermediate algebra. Intended for students who are concurrently enrolled in MATH 120, Intermediate Algebra, at Cañada College. Review topics include: computational skills developed in pre-algebra, the vocabulary of algebra, translation from English to algebra, and evaluation of literal expressions and functions. Topics covered in more depth include: solving and graphing linear equations and inequalities in one and two variables, solving and graphing systems of equations in two variables, factoring, algebraic operations on polynomial and rational expressions, solving quadratics using factoring, and rational equations. Recommended for students with little or no recent knowledge of algebra. A graphing calculator is required for this course.
Class Schedule Course Description	A review of the core prerequisite skills, competencies, and concepts for intermediate algebra. Intended for students who are concurrently enrolled in MATH 120, Intermediate Algebra, at Cañada College. Review topics include: computational skills developed in pre-algebra, the vocabulary of algebra, translation from English to algebra, and evaluation of literal expressions and functions. Topics covered in more depth include: solving and graphing linear equations and inequalities in one and two variables, solving and graphing systems of equations in two variables, factoring, algebraic operations on polynomial and rational expressions, solving quadratics using factoring, and rational equations. Recommended for students with little or no recent knowledge of algebra. A graphing calculator is required for this course.
Proposal Information	
Proposed Start	Year: 2021 Semester: Fall
Proposed Curriculum Committee Meeting Date:	03/12/2021
Deadline for submission to Dean's Queue:	02/04/2021
Deadline for submission of curriculum proposal to the Technical Review Committee:	02/16/2021
Proposal Origination Date:	01/29/2021
Justification For Board Report OR Curriculum Inventory update:	<p>1. For NEW Courses: Provide a brief justification statement describing the need for the course, its place in the curriculum, and pertinent information such as the role of advisory committees. New courses require approval of the SMCCCD Board of Trustees. The justification statement will be included on the annual Curricular Board report. Use complete sentences and present tense.</p> <p>2. For all types of Course MODIFICATIONS (modifications, banking, deletions and reactivations): Provide a brief justification statement describing the need for the change. The justification statement will be used for course updates in the State Curriculum Inventory as necessary. Use complete sentences and present tense.</p> <p>This course was created as a support course for Math 120. However, it was never offered, and became obsolete due to change in AB705 requirements.</p>
Honors Course	No

Open Entry/Open Exit	No 0
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Equivalent Courses	
Will this course replace an existing course in the catalog, or an experimental course?	No
If yes, identify and explain.	
Similar Courses	
Is there a similar or equivalent course in SMCCCD?	Yes
Added Similar Courses	MATH 820 (College of San Mateo) MATH 820 (Skyline College)

Units/Hours				
Unit Types	Fixed			
Units	Min: 3.00			
Variable Range	Range (or)			
Hours				
Please enter hours as per term values				
Method	Min Hours	Max Hours	Min Faculty Load	Min Units
Lecture	48.00	54.00	3.00	3.00
Lab	0.00	0.00	0.00	0.00
TBA	0.00	0.00	0.00	0.00
Work Experience	0.00	0.00	0.00	0.00
Field Experience	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00
Homework	96.00	108.00	0.00	0.00
Other Hours				
Course Details				
Repeatable for Credit	No			
Grading Methods	Pass/No Pass Only			
Audit	Yes			

Materials Fee	
Fee Required?	No

Student Learning Outcomes	
Upon successful completion of this course, a student will meet the following outcomes:	
1. Reorganize or simplify algebraic expressions.	
2. Solve linear equations.	
3. Graph linear equations.	
4. Find linear equations.	

Course Objectives

Upon successful completion of this course, a student will be able to:

1. Use properties of real numbers, the order of operations, absolute value and integer exponents to simplify algebraic expressions
2. Use the concept of variable to represent relationships from tables, graphs, problem situations and geometric diagrams
3. Formulate, graph, analyze and solve linear equations, linear inequalities and two variable systems of linear equations
4. Use arithmetic operations and factoring techniques to reorganize algebraic expressions and equations
5. Perform basic operations on rational expressions
6. Solve simple rational equations and proportions
7. Use various problem-solving strategies to analyze problems and to formulate and carry out appropriate solution strategies

Course Lecture Content

1. Reorganize expressions by:
 1. Applying properties of integer exponents
 2. Expanding the product of polynomials
 3. Factoring polynomials
 4. Performing arithmetic operations on polynomials
2. Solve:
 1. Linear equations
 2. Linear inequalities
 3. Systems of Linear equations with two variables and/or
 4. Rational equations (proportions)
3. Graph:
 1. Linear equations in two variables
 2. Linear inequalities in one variable
4. Form linear equations to represent relationships from:
 1. Two points
 2. Slope and a point
 3. A graph of a line and/or
 4. An application problem
5. Solve and interpret the solutions of application problems
 1. Use linear model to do estimation
 2. Use linear model to do prediction
6. Inspect and analyze a graph in order to:
 1. Determine if it represents a function
 2. Evaluate the function
 3. Determine the domain and range of a function

Course Lab Content

TBA Hours Content

Frequently Recommended Preparation

Frequently Recommended

Justification for Frequently Recommended Preparation

Why is the knowledge of the recommended course(s), skill(s) or information necessary for students to succeed in the

"target" course? Specify the relationship between the recommended knowledge and skills required of students and those taught in the "target course? (Please list the specific proficiencies students must possess in order to succeed in the "target" course.)

Students must perform basic arithmetic computations and comparisons, including solving problems involving ratio, proportion, and percent.

Other Recommended Preparation

You have no defined requisites.

Prerequisites/Corequisites

Drag and Drop to Reorder

Edit/Delete	Requisites	Analysis
	Corequisite Concurrent enrollment in	
	Corequisite MATH 120	

Content Review

You have not defined content review.

Mode of Delivery

Modes of Delivery

Online
 Hybrid
 Lecture

Representative Instructional Methods

Methods	Lecture Discussion
Other Methods	

Representative Assignments

Writing Assignments

(List all assignments, including library assignments. Outside assignments are not required for lab-only courses, although they can be given.)

- Journal Assignments assigned once to three times for the semester: Students may be asked to reflect on their performance on an assignment or exam. Assignments 0.5-2 pages in length.

Reading Assignments

(List all assignments, including library assignments. Outside assignments are not required for lab-only courses, although they can be given.)

- Various sources and books including algebra and prealgebra topics for the reading assignments. Reading assignments workload will range from 3 to 15 pages per class.

<p>Other Outside Assignments (List all assignments, including library assignments. Outside assignments are not required for lab-only courses, although they can be given.)</p>
<ul style="list-style-type: none"> • Outside assignments are problem sets including problems equivalent to those covered in lectures and original problems which require the synthesizing of various concepts.
<p>To be Arranged Assignments (List all assignments, including library assignments. Outside assignments are not required for lab-only courses, although they can be given.)</p>
<ul style="list-style-type: none"> • Not applicable

<p>Representative Methods of Evaluation</p>	
<p>This section defines the ways students will demonstrate that they have met the student learning outcomes.</p> <p>Student grades will be based on multiple measures of student performance. Instructors will develop appropriate classroom assessment methods and procedures for calculating student grades, including the final semester grade. The following list displays typical assessment methods appropriate for this course. The actual assessment methods used in a particular classroom and section will be listed in the instructor's syllabus.</p> <p>Methods must effectively evaluate critical thinking. Credit courses must include written communication, problem solving, and/or skills demonstrations.</p> <p>Multiple measures may include, but are not limited to, the following:</p>	
<p>Methods</p>	<ul style="list-style-type: none"> • Class Participation • Exams/Tests • Homework • Quizzes

<p>Representative Texts</p>	
<p>Textbooks such as the following are appropriate:</p>	
Formatting Style	APA
Textbooks	
	1. Lehmann, Jay. <i>Intermediate Algebra: Functions & Authentic Applications</i> , 6th ed. Pearson, 2018
Manuals	
	<i>You have no manuals defined.</i>
Periodicals	
	<i>You have no periodicals defined.</i>
Software	
	<i>You have no software defined.</i>
Other	

You have no other defined.

Degree/Certificate Applicability

Designation	Non-Degree Credit Basic Skills
Proposed For	
Course Designation Text	Are there degrees/certificates to which this course applies? No

General Education/Degree/Transfer Course

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By Po Tong

CSU Transfer Course

Does not transfer to CSU Approved

Course Distance Education

Distance Ed Supplement	New distance education supplement
Distance Education	Distance education component was developed by an instructor with training in online pedagogy. Training: Faculty took courses from @One, the QOTL program, or their equivalent.
Method of Distance Education	Online, Hybrid, Web Assisted Course; (If there are limitations on how this course would be offered please explain below)
Online Method Limitations	
Other Methods	
Course Content and Methodology	The objectives and content of the course are adequately covered by the methods of instruction, assignments, evaluation of student outcomes, and instructional materials. If this course is currently taught in a lecture mode, the department faculty have determined that the same objectives can be achieved in a distance learning mode. The instructional equipment and materials are sufficient. The preparation and training of faculty are sufficient. Regular personal contact between students and instructor is sufficient. Methods of student evaluation are designed to maintain examination security. Evaluation of student outcomes is sufficient to permit review and assessment of the effectiveness of distance education for this course and to provide information for the annual distance education report.
Instructional Methodologies (How will you deliver the course content?):	Announcements/Bulletin Boards Chat Rooms E-mail Electronic Forum One-Way Video Conferencing (One-way interactive video and two-way interactive audio) Online Presentations Resource Links Telephone Two-Way Video conferencing (Two-way interactive video and audio) Video one-way (ITV, Video cassette,radio, ect.)
Representative Courseware/Textbooks	WebAssign.net MyMathLab

Materials:	
Methods of Evaluation of Student Performance:	Weekly online homework Online quizzes Weekly discussion board postings
How are you ensuring that students with disabilities can access your course in accordance with Section 508?	All figures and equations will have text descriptions, all videos will have captioning, and all audio will have transcriptions. The DRC contact information will be included in the syllabus and all documents will be structured according to ADA regulations.

Plan for Regular Effective Communication Contact Between Faculty and Student (Title 5, 55204). "Local policies should establish and monitor minimum standards of regular effective contact."

You have no defined contact types.

Resources Needed

Adequate Library Resources	Consultation with the Coordinator of Library Services regarding the adequacy of campus and online information resources to fulfill course objectives is required prior to course approval. Adequate Please Specify:
Affected Resources	Which of the following resources do you expect to be affected by the offering of this class? Check as many as appropriate.
	None of the above
Explain what effect the areas you have checked will have upon this college:	

Comparable Transfer Course Information

Are there comparable courses? No

Minimum Qualification

No Minimum Qualifications For this Course

CB Codes

CB03 TOP Code	1701.00 - Mathematics, General
CB04 Course Credit Status	C - Credit - Not Degree Applicable
CB05 Course Transfer Status	C = Not Transferable
CB08 Course Basic Skill Status (PBS Status)	1B = Course is a basic skills course.
CB09 SAM Code	E - Non-Occupational
CB11 California Classification Codes	Y - Credit Course
CB21 Levels	B = 2 Levels Below

Below Transfer	
CB23 Funding Agency Category	Y = Not Applicable
CB25 Course General Education Status	Y - Not Applicable
CB26 Course Support Course Status	S - Course is a support course

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Web Catalog Metadata