# MATH V04J: JUST-IN-TIME SUPPORT FOR COLLEGE ALGEBRA

## **History**

1. Apr 14, 2021 by Dorothy Farias (dfarias)

Viewing: MATH V04J : Just-in-Time Support for College Algebra

Last approved: Wed, 14 Apr 2021 14:06:54 GMT

Last edit: Tue, 13 Apr 2021 21:29:21 GMT

Originator

churtado

Co-Contributor(s)

Name(s)

Petitfils, Ryan (ryan\_petitfils1) Bennett, Jack (jbennett) Farias, Dorothy (dfarias)

College

Ventura College

Discipline (CB01A) MATH - Mathematics

Course Number (CB01B) V04J

**Course Title (CB02)** Just-in-Time Support for College Algebra

Banner/Short Title Support for College Algebra

Credit Type Credit

Start Term Summer 2020

#### **Catalog Course Description**

A review of the core prerequisite skills, competencies, and concepts for college algebra. Intended for students who are concurrently enrolled in MATH V04, college algebra. Just-in-time support topics include: learning skills, computational skills developed in intermediate algebra, the vocabulary of algebra, translation from English to algebra, and evaluation of literal expressions and functions.

#### **Additional Catalog Notes**

This support course is required for some, but not all, sections of MATH V04; click the CRN information in the schedule of classes for each section of MATH V04 to determine whether support is required for that section; see your counselor or major advisor for more information.

Taxonomy of Programs (TOP) Code (CB03) 1701.00 - Mathematics, General

**Course Credit Status (CB04)** S (Support Course - Credit - Not Degree Applicable)

Course Transfer Status (CB05) (select one only) C (Not transferable) **Course Basic Skills Status (CB08)** B - The Course is a Basic Skills Course

SAM Priority Code (CB09) E - Non-Occupational

**Course Cooperative Work Experience Education Status (CB10)** N - Is Not Part of a Cooperative Work Experience Education Program

**Course Classification Status (CB11)** Y - Credit Course

Educational Assistance Class Instruction (Approved Special Class) (CB13) N - The Course is Not an Approved Special Class

**Course Prior to Transfer Level (CB21)** A - One level below transfer

Course Noncredit Category (CB22) Y - Credit Course

**Funding Agency Category (CB23)** Y - Not Applicable (Funding Not Used)

**Course Program Status (CB24)** 2 - Not Program Applicable

**General Education Status (CB25)** Y - Not Applicable

Support Course Status (CB26) S - Course is a support course

Field trips Will not be required

**Grading method** (P) Pass/No Pass Grading

Does this course require an instructional materials fee? No

Repeatable for Credit

No

Is this course part of a family? No

## **Units and Hours**

**Carnegie Unit Override** No

In-Class

Lecture Minimum Contact/In-Class Lecture Hours 35 Maximum Contact/In-Class Lecture Hours 35 Activity

Laboratory

**Total in-Class** 

Total in-Class Total Minimum Contact/In-Class Hours 35 Total Maximum Contact/In-Class Hours 35

## **Outside-of-Class**

Internship/Cooperative Work Experience

Paid

Unpaid

**Total Outside-of-Class** 

Total Outside-of-Class Minimum Outside-of-Class Hours 70 Maximum Outside-of-Class Hours 70

## **Total Student Learning**

Total Student Learning Total Minimum Student Learning Hours 105 Total Maximum Student Learning Hours 105

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Minimum Units (CB07)
2
Maximum Units (CB06)
2
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Corequisites MATH V04

Requisite Justification Requisite Type Corequisite

Requisite MATH V04

**Requisite Description** Other (specify)

**Specify Other Requisite Description** MATH V04 is the course for which MATH V04J provides support

Level of Scrutiny/Justification Content review

#### Student Learning Outcomes (CSLOs)

 Upon satisfactory completion of the course, students will be able to:

 1
 Students will identify and organize algebraic information in order to analyze, graph, interpret, or evaluate it using mathematical skills.

 2
 Students will identify algebraic problems, examine them from one or more approaches, and come to conclusions that are supported by well-reasoned mathematical arguments.

 3
 Students will apply algebraic knowledge to solve application problems.

#### **Course Objectives**

	Upon satisfactory completion of the course, students will be able to:
1	Perform algebraic operations and solve equations involving linear, absolute value, polynomial, rational, radical, exponential, and logarithmic expressions.
2	Graph linear, quadratic, exponential, and logarithmic functions.
3	Solve and graph linear, quadratic, and absolute value inequalities.
4	Apply factoring techniques to polynomial expressions.
5	Perform operations with complex numbers.
6	Solve systems of equations in two or more variables.
7	Define a function; identify whether a given equation or curve represents a function; determine a function's domain and range; perform algebraic operations, including composition, on functions; and determine and verify inverse functions.
8	Apply algebraic knowledge learned throughout the course to solve application problems.
9	Apply effective learning skills for success in college.

#### **Course Content**

#### Lecture/Course Content

- 1. Algebraic operations and equations (Obj 1)
  - a. Add, subtract, multiply, divide and compose linear, absolute value, polynomial, rational, radical, exponential and logarithmic functions.
  - b. Solve linear, absolute value, polynomial, rational, radical, exponential and logarithmic equations.
- 2. Graphing (Obj 2 and 3)
  - a. Graph linear, quadratic, exponential, and logarithmic functions
  - b. Graph linear, quadratic, and absolute value inequalities
- 3. Factoring (Obj 4)
  - a. Methods of factoring, including the sum and difference of cubes
- 4. Complex numbers (Obj 5)
- a. Algebraic operations on complex numbers
- 5. Systems of linear equations (Obj 6)
  - a. Solve systems of linear equations using:
    - i. Substitution
    - ii. Addition/Elimination
  - iii. Matrix Methods
- 6. Functions (Obj 7)
  - a. Determine if a relation is a function
  - b. Identify a function's domain and range
  - c. Add, subtract, multiply, divide and compose functions
  - d. Determine if a function is invertible
  - e. Find inverse functions
- 7. Application problems (Obj 8)
  - a. Apply algebraic knowledge to model and solve application problems
- 8. Learning skills (Obj 9)
  - a. Apply learning skills that promote success in college.

#### Laboratory or Activity Content

N/A - Lecture only.

### **Methods of Evaluation**

#### Which of these methods will students use to demonstrate proficiency in the subject matter of this course? (Check all that apply):

Problem solving exercises Skills demonstrations Written expression

## Methods of Evaluation may include, but are not limited to, the following typical classroom assessment techniques/required assignments (check as many as are deemed appropriate):

Computational homework Group projects Individual projects Journals Mathematical proofs Objective exams Oral presentations Other (specify) Problem-solving exams Portfolios Quizzes Reports/papers Research papers Skills demonstrations Skills tests or practical examinations

#### Other

performance exam(s)

#### Instructional Methodology

#### Specify the methods of instruction that may be employed in this course

Audio-visual presentations Computer-aided presentations Collaborative group work Class activities Class discussions Distance Education Demonstrations Group discussions Guest speakers Instructor-guided interpretation and analysis Instructor-guided use of technology Internet research Lecture Other (specify) Small group activities

#### Specify other method of instruction

Large Group Activities Problem Solving Reading Assignments Web-based Presentation

#### **Representative Course Assignments**

#### Writing Assignments

Summarizing and interpreting answers to problems in paragraph form; articulating responses within the computational homework to demonstrate an understanding of concepts.

#### **Reading Assignments**

Text and other scholarly articles, 1 to 2 sections/articles per week.

#### Problem-Solving and Other Assignments (if applicable)

Solving problems using various forms of technology; use of technology may be incorporated into the computational homework, or assigned in addition to computational homework

#### **Outside Assignments**

#### **Representative Outside Assignments**

Representative outside assignments may include, but are not limited to, homework problems, projects, activities, and group work in which students:

- Add, subtract, multiply, divide and compose linear, absolute value, polynomial, rational, radical, exponential and logarithmic functions.
- · Solve linear, absolute value, polynomial, rational, radical, exponential and logarithmic equations.
- · Graph linear, quadratic, exponential, and logarithmic functions
- · Graph linear, quadratic, and absolute value inequalities
- · Apply methods of factoring, including the sum and difference of cubes
- Apply algebraic operations on complex numbers
- · Solve systems of linear equations using, matrix methods, addition/elimination, substitution
- · Determine if a relation is a function
- · Identify a function's domain and range
- · Determine if a function has an inverse
- · Find inverse functions
- · Apply algebraic knowledge to model and solve application problems
- · Apply learning skills that promote success in college.

#### **Textbooks and Lab Manuals**

## Resource Type

Textbook

Description

Blitzer, R.F (2017). College Algebra (7th). Pearson. 9780134469164

#### **Distance Education Addendum**

#### Definitions

#### **Distance Education Modalities**

Hybrid (51%–99% online) Hybrid (1%–50% online) 100% online

#### **Faculty Certifications**

Faculty assigned to teach Hybrid or Fully Online sections of this course will receive training in how to satisfy the Federal and state regulations governing regular effective/substantive contact for distance education. The training will include common elements in the district-supported learning management system (LMS), online teaching methods, regular effective/substantive contact, and best practices.

Yes

Faculty assigned to teach Hybrid or Fully Online sections of this course will meet with the EAC Alternate Media Specialist to ensure that the course content meets the required Federal and state accessibility standards for access by students with disabilities. Common areas for discussion include accessibility of PDF files, images, captioning of videos, Power Point presentations, math and scientific notation, and ensuring the use of style mark-up in Word documents.

Yes

Hybrid (1%–50% online) Modality:			
Method of Instruction	Document typical activities or assignments for each method of instruction		
Asynchronous Dialog (e.g., discussion board)	Regular use of asynchronous discussion boards encourages various types of interaction and critical thinking skills among all course participants. Questions and topics posed will allow students to discuss, compare and contrast, identify, and analyze elements of the course outcomes. Other discussion boards may be used for Q&A and general class discussion by students and instructor to facilitate student success and strengthen student learning outcomes.		
E-mail	E-mail, class announcements and various learning management system tools such as "Message Students Who" and "Assignment Comments", will be used to regularly communicate with all students on matters such as clarification of class content, reminders of upcoming assignments and/or course responsibilities, to provide prompt feedback to students on coursework to facilitate student learning outcomes, or to increase the role of an individual educator in the academic lives of a student. Students will be given multiple ways to email instructor through both the learning management system inbox and faculty provided email accounts.		
Face to Face (by student request; cannot be required)	Students will have direct face-to-face contact with instructor during weekly class meetings. This time will provide the opportunity for students to discuss and ask questions about the material to facilitate student learning objectives and course outcomes. The instructor will also hold weekly, scheduled office hours for students to be able to meet and discuss course materials or individual progress. Students can request additional in-person or web conferencing meetings with faculty member as needed. Faculty may encourage online students to form "study groups" in person or online. Note: For hybrid classes, face-to-face class time will provide opportunities for students to discuss amongst themselves (in groups or pairs) and ask questions about the material to facilitate SLOs and course outcomes.		
Other DE (e.g., recorded lectures)	Faculty may use a variety of ADA compliant tools and media integrated within the learning management system to help students reach SLO competency. Tools may include: o Recorded Lectures, Narrated Slides, Screencasts o Instructor created content o VC Online Library Resources o Canvas Peer Review Tool o Canvas Student Groups (Assignments, Discussions) o 3rd Party (Publisher) Tools (MyOpenMath) o Websites and Blogs o Multimedia (YouTube, Films on Demand, 3CMedia, Khan Academy, etc.)		
Synchronous Dialog (e.g., online chat)	Instructor may provide a set time each week where they will be available for synchronous chat and be available in the discussion board and can answer questions in live time.		
Video Conferencing	Video tools such as ConferZoom can be used to provide live synchronous or asynchronous sessions with students. ADA compliance will be upheld with Closed Captioning during the session or of the recorded session. Video Conferences will be used to facilitate SLOs and student-to-student group meetings will also be encouraged.		
Hybrid (51%–99% online) Modality:			
Method of Instruction	Document typical activities or assignments for each method of instruction		
Asynchronous Dialog (e.g., discussion board)	Regular use of asynchronous discussion boards encourages various types of interaction and critical thinking skills among all course participants. Questions and topics posed will allow students to discuss, compare and contrast, identify, and analyze elements of the course outcomes. Other discussion boards may be used for Q&A and general class discussion by students and instructor to facilitate student success and strengthen student learning outcomes.		

## **Regular Effective/Substantive Contact**

## Hybrid (1%-50% online) Modality:

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Telephone	Students can request for instructor to call or vice versa in order to answer one-on-one questions about course material or student progress.

## **Examinations**

#### **Hybrid (1%–50% online) Modality** Online On campus

#### **Hybrid (51%–99% online) Modality** Online On campus

#### Primary Minimum Qualification MATHEMATICS

## **Review and Approval Dates**

**Department Chair** MM/DD/YYYY

**Dean** MM/DD/YYYY

Technical Review MM/DD/YYYY

Curriculum Committee 09/15/2020

DTRW-I

n/a

Curriculum Committee 09/15/2020

**Board** n/a

**CCCCO** 09/30/2020

Control Number CCC000598522 DOE/accreditation approval date

MM/DD/YYYY

**Reviewer Comments** 

lwright (Fri, 18 Oct 2019 22:28:14 GMT): Dean reviewed 10/18/2019

Ryan Petitfils (ryan\_petitfils1) (Mon, 11 May 2020 19:19:52 GMT): Please send course back so that I may edit the DE.

Michael Callahan (mcallahan) (Tue, 12 May 2020 21:22:29 GMT): Rollback: Ryan will be adding DE to the course.

Sharon Oxford (soxford) (Thu, 30 Jul 2020 01:23:42 GMT): Recommend looking into DE Modality permanent status reflect same status as Math V04.

Michael Bowen (mbowen) (Sun, 16 Aug 2020 02:15:57 GMT): Emergency-only DE selections were made permanent by vote of math department 20200814.

Michael Bowen (mbowen) (Fri, 28 Aug 2020 00:56:33 GMT): Rollback: Hold for 9/15 CC meeting.

Kelly Denton (kdenton) (Thu, 11 Mar 2021 01:27:39 GMT): SYNC ERROR FIX: Edited Catalog Course Description field by removing the last sentence "Not applicable for degree credit." and adding it to the Additional Catalog Notes field.

Key: 4969