

**SAN DIEGO COMMUNITY COLLEGE DISTRICT
CITY, AND MESA COLLEGES
ASSOCIATE DEGREE COURSE OUTLINE**

SECTION I

SUBJECT AREA AND COURSE NUMBER: Mathematics 015B

COURSE TITLE:
Elementary Algebra and Geometry Refresher

Units:
1
Pass/No Pass

CATALOG COURSE DESCRIPTION:

This course is a review of elementary algebra and geometry skills needed for success in subsequent mathematics courses. Students receive instruction and academic support in mathematics concepts, arithmetic operations, algebraic expressions, mathematical properties, and their application to elementary algebra- and geometry-specific mathematical problems. This course is designed for students who need to refresh their elementary algebra and geometry skills or need additional support in subsequent mathematics courses.

REQUISITES:

NONE

FIELD TRIP REQUIREMENTS:
Not required

TRANSFER APPLICABILITY:
Not applicable to the Associate Degree

CID:

TOTAL LECTURE HOURS:

TOTAL LAB HOURS:
48 - 54

TOTAL CONTACT HOURS:
48 - 54

OUTSIDE-OF-CLASS HOURS:

TOTAL STUDENT LEARNING HOURS:
48 - 54

STUDENT LEARNING OBJECTIVES:
Upon successful completion of the course the student will be able to:

- 1. Demonstrate understanding of the mathematical concepts required for the beginning algebra and geometry level as defined in the district course outline;

2. Perform the basic arithmetic operations required for the beginning algebra and geometry level as defined in the district course outline.
3. Translate verbal expressions into algebraic expressions and simplify them as needed for the beginning algebra and geometry level as defined in the district course outline.
4. Apply mathematical properties required for the beginning algebra and geometry level as defined in the district course outline for Math 46.
5. Apply the appropriate skills in application problems required for the beginning algebra and geometry level as defined in the district course outline.

SECTION II

1. COURSE OUTLINE AND SCOPE:

A. Outline Of Topics:

The following topics are included in the framework of the course but are not intended as limits on content. The order of presentation and relative emphasis will vary with each instructor.

- I. Mathematical Concepts
 - A. Integer exponents
 - B. Polynomial and rational expressions
 - C. Linear equations and inequalities
 - D. Graphs of linear functions
 - E. Two-dimensional geometric shapes
- II. Arithmetic Operations
 - A. Real numbers
 - B. Integer exponents
 - C. Polynomial and rational expressions.
- III. Algebraic Expressions
 - A. Translate verbal phrases into algebraic equations
 - B. Translate verbal phrases into algebraic inequalities
- IV. Mathematical Properties
 - A. Integer exponents
 - B. Polynomial and rational expressions
 - C. Linear equations and inequalities
 - D. Graphs of linear functions
 - E. Two-dimensional geometric shapes
- V. Application Problems to include but not limited to
 - A. Distance/Rate/Time
 - B. Ratio
 - C. Mixture
 - D. Area and perimeter

B. Reading Assignments:

Reading assignments are required and may include, but are not limited to, the following:

- I. Reading and studying the related chapters in the beginning algebra and geometry texts identified in the district course outline.
- II. Reading articles from current journals, such as Math Horizons, and newspapers pertaining to applications of beginning algebra topics as indicated in the district course outline.

C. Writing Assignments:

Writing assignments are required and may include, but are not limited to, the following:

- I. Short paragraphs on the methods of solving various types of beginning algebra problems.
- II. Reflective journal containing common errors and their corrections.
- III. Report on the life of a mathematician.

D. Appropriate Outside Assignments:

Outside assignments may include, but are not limited to, the following:

- I. Reviewing, and where necessary, rewriting class notes.
- II. Practicing problems from the appropriate sections.
- III. Writing short papers on related mathematical topics such as equations, functions, graphing and geometric shapes.
- IV. Completing reports on exploratory activities performed in class, such as calculator investigations.
- V. designing a space using a variety of geometric shapes;
- VI. computer explorations and tutorials such as graphing and factoring using Maple or Derive.
- VII. viewing video tapes on topics such as absolute value and area.

E. Appropriate Assignments that Demonstrate Critical Thinking:

Critical thinking assignments are required and may include, but are not limited to, the following:

- I. Interpreting mathematical principles and techniques, at the appropriate level, to solve broader and more difficult problems than those covered in class.
- II. Solving a variety of application problems, at the appropriate level, which require the appropriate use of techniques and theorems learned in class.

2. METHODS OF EVALUATION:

A student's grade will be based on multiple measures of performance unless the course requires no grade. Multiple measures may include, but are not limited to, the following:

Any student wishing to use this course to improve a math placement level must take a proctored final exam.

- I. Completion of the assigned topics as deemed necessary by the initial assessment.
- II. Completion of the assigned assessments at the appropriate level.
- III. An in-class comprehensive final exam for beginning algebra and geometry.

3. METHODS OF INSTRUCTION:

Methods of instruction may include, but are not limited to, the following:

- * Audio-Visual
- * Collaborative Learning
- * Computer Assisted Instruction
- * Distance Education (Fully online)
- * Learning Modules
- * Lecture
- * Lecture Discussion

4. REQUIRED TEXTS AND SUPPLIES:

Textbooks may include, but are not limited to:

TEXTBOOKS:

1. Bass, Alan. Geometry, Fundamental Concepts and Applications, 1st ed. Addison Wesley, 2008, ISBN: 9780321473318
2. Bittinger, Martin, et al. Elementary and Intermediate Algebra, Concepts and Applications, 7th ed. Pearson, 2018, ISBN: 9780134462707
3. Martin-Gay, Elayn. Beginning and Intermediate Algebra, 6th ed. Pearson, 2016, ISBN: 9780134193090

MANUALS:

PERIODICALS:

SOFTWARE:

SUPPLIES:

1. Scientific calculator
2. Flash drive
3. Protractor
4. Graph paper

ORIGINATOR: Juan U. Bernal

ORINATION DATE: 02/13/2021

PROPOSAL ORIGINATOR: Julia McMenamin

CO-CONTRIBUTOR(S)

PROPOSAL DATE: 02/10/2023

**SAN DIEGO COMMUNITY COLLEGE DISTRICT
COURSE PROPOSAL IMPACT REPORT**

COURSE TO BE PROPOSED: MATH 015B
Elementary Algebra and Geometry Refresher

ACTIVE/APPROVED COURSES IMPACTED:

MATH 015B Elementary Algebra and Geometry Refresher (29533)

ACTIVE/APPROVED/PROPOSED PROGRAMS IMPACTED:

SAN DIEGO COMMUNITY COLLEGE DISTRICT

CITY AND MESA COLLEGES

Course Outline of Record: Curriculum Proposal Report

SECTION I

- I. **Subject Area:** Mathematics
- II. **Course Number:** 015B
- III. **Course Title:** Elementary Algebra and Geometry Refresher
- IV. **Disciplines (Instructor Minimum Qualifications):** Mathematics
- V.
- VI. **Family:**
- VII. **Current Short Title:** Elem Algebra/Geom Refresher
- VIII. **Course Is Active/Where?** CITY , MESA AND MIRAMAR
- IX. **Originating Campus:** MIRAMAR
- X. **Action Proposed:** Course Deactivation *(Active at another College)*
- XI. **Distance Education Proposed At:**
- XII. **Proposal Originating Date:** 02/10/2023
- XIII. **Proposed Start Semester:** Fall 2024
- XIV. **Field Trip:** Not required
- XV. **Grading Option:** Pass/No Pass
- XVI. **Current Short Description:** Reviews topics in elementary algebra and geometry to prepare for intermediate algebra.

SECTION II

COURSE ENROLLMENT INFORMATION

- I. **Requisites:** NONE
- II. **Current Degree Applicability:** Not applicable to the Associate Degree
- III. **Current Basic Skills Designation:** B - Basic Skills Course
- IV. **Repeatability:** Course may be taken 1 time(s)
- V. **Course Equivalency:** No
- VI. **Additional Information:**
- VII. **Additional Textbook Information:** Texts are most current editions.

COURSE ANALYSIS DATA

- I. **Reason for Proposed Action:** We have not offered this course. We would like to deactivate.
- II. **How Does The Course Fit The College Mission?** 1. Basic Skills/ESL
- III. **Current Transfer Options:**
- IV. **Proposed College/District Purpose:** 1. Course is not included in required units for major
- V. **Extraordinary Cost to the College:** None.
- VI. **Library Resource Materials:** None.

GENERAL EDUCATION ANALYSIS

REQUISITES ANALYSIS

SECTION III

COURSE DISTANCE EDUCATION INFORMATION

- I. **MESA**
- II. **Distance Education Methods of Instruction:** 1. On-line course
- III. **Other Distance Education Methods:**
- IV. **Type and frequency of contact may include, but is not limited to:**
 1. E-mail

once a week or as needed.

2. Orientation Sessions

may be required on an individual basis.

3. Threaded Conferencing

weekly or as needed to discuss issues common to most students.

V. **List of Techniques:** Timed On-line quizzes and tests. On-line homework. On campus exam may be required.

VI. **How to Evaluate Students for Achieved Outcomes:** Performance on timed on-line quizzes and tests or an on campus final exam.

VII. **Additional Resources/Materials/Information:** Provide text/software alternatives for any non-text content.

Distance education techniques used in this course will be accessible to individuals with disabilities (Sections 504 and 508 of the Rehabilitation Act). Requests for technology accommodations will be met by working with the Adaptive Technology Specialist to ensure compliance with the Americans with Disabilities Act (ADA).

VIII. **Audio Visual Library Materials:** NO

IX. **CITY**

X. **Distance Education Methods of Instruction:** 1. On-line course

XI. **Other Distance Education Methods:**

XII. **Type and frequency of contact may include, but is not limited to:**

1. E-mail

once a week or as needed.

2. Orientation Sessions

may be required on an individual basis.

3. Threaded Conferencing

weekly or as needed to discuss issues common to most students.

XIII. **List of Techniques:** Timed On-line quizzes and tests. On-line homework. On campus final exam will be required.

XIV. **How to Evaluate Students for Achieved Outcomes:** Performance on timed on-line quizzes and tests or an on campus final exam.

XV. **Additional Resources/Materials/Information:** Provide text/software alternatives for any non-text content.

Distance education techniques used in this course will be accessible to individuals with disabilities (Sections 504 and 508 of the Rehabilitation Act). Requests for technology accommodations will be met by working with the Adaptive Technology Specialist to ensure compliance with the Americans with Disabilities Act (ADA).

XVI. **Audio Visual Library Materials:** NO

XVII. **MIRAMAR**

XVIII. **Distance Education Methods of Instruction:** 1. On-line course

XIX. **Other Distance Education Methods:**

XX. **Type and frequency of contact may include, but is not limited to:**

1. E-mail

once a week or as needed.

2. Orientation Sessions

may be required on an individual basis.

3. Threaded Conferencing

weekly or as needed to discuss issues common to most students.

XXI. **List of Techniques:** Timed On-line quizzes and tests. On-line homework. On campus final exam will be required.

XXII. **How to Evaluate Students for Achieved Outcomes:** Performance on timed on-line quizzes and tests or an on campus final exam.

XXIII. **Additional Resources/Materials/Information:** Provide text/software alternatives for any non-text content.

Distance education techniques used in this course will be accessible to individuals with disabilities (Sections 504 and 508 of the Rehabilitation Act). Requests for technology accommodations will be met by working with the Adaptive Technology Specialist to ensure compliance with the Americans with Disabilities Act (ADA).

XXIV. **Audio Visual Library Materials:** NO

SECTION IV

COURSE STUDENT LEARNING OUTCOME(S)

CITY

- Upon successful completion of the course the student will be able to apply algebra and geometry skills to standard problems.

MESA

- Students will complete a particular portion of their pie.
- Students will complete a particular portion of their pie.
- Students will achieve their personal mathematical goal with this class as identified on their entry survey.
- Upon successful completion of the course the student will be able to apply algebra and geometry skills to standard problems.
- Students will achieve their personal mathematical goal with this class as identified on the entry survey.
- Students will achieve their personal mathematical goal with this class as identified on the entry survey.

SECTION V

COURSE DATA ADMINISTRATION ELEMENTS

I. Codes:

California Classification: (Y Credit Course)

TOP Code: 1702.00 Mathematics Skills

SAM Code: E - Non Occupational

Course Prior to College Level (CB21): Y - Not applicable. Level of course is not one of the levels listed above, may be above level A (transferable) or below level C (more than 3 levels below transfer level).

Funding Agency Category (CB23): Not Applicable (funding not used to develop course)

Course Program Status (CB24): Not program-applicable

Course Gen Education Status (CB25): Y = Not applicable

Course Support Course Status (CB26): S = Course is a Support Course

Major Restriction Code: NONE

II. Lab Units: 1.00

Total Units: 1

Lecture Hours Min: 0.00 **Max:** 0.00

Lab Hours Min: 48.00 **Max:** 54.00

Other Hours Min: 0.00 **Max:** 0.00

Total Contact Hours Min: 48.00 **Max:** 54.00

Outside-of-Class Hours Min: 0.00 **Max:** 0.00

Total Student Learning Hours Min: 48.00 **Max:** 54.00

FTEF Lecture Min: 0.0000 **Max:**

FTEF Lab Min: 0.2000 **Max:**

FTEF Total Min: 0.2000 **Max:**

III. Last Time Pre/Co Requisite Update:

IV. Last Outline Revision Date: 09/09/2021

V. CIC Approval:

VI. BOT Approval:

VII. State Approval:

VIII. Revised State Approval:

IX. Course Approval Effective Date:

SECTION VI

CREDIT FOR PRIOR LEARNING

MATH 015B

Previous Report

CIC Approval: 09/09/2021
BOT APPROVAL:
STATE APPROVAL:
EFFECTIVE TERM: Fall 2022

**SAN DIEGO COMMUNITY COLLEGE DISTRICT
CITY, MESA, AND MIRAMAR COLLEGES
ASSOCIATE DEGREE COURSE OUTLINE**

SECTION I

SUBJECT AREA AND COURSE NUMBER: Mathematics 015B

COURSE TITLE:

Elementary Algebra and Geometry Refresher

Units:

1

Pass/No Pass

CATALOG COURSE DESCRIPTION:

This course is a review of elementary algebra and geometry skills needed for success in subsequent mathematics courses. Students receive instruction and academic support in mathematics concepts, arithmetic operations, algebraic expressions, mathematical properties, and their application to elementary algebra- and geometry-specific mathematical problems. This course is designed for students who need to refresh their elementary algebra and geometry skills or need additional support in subsequent mathematics courses.

REQUISITES:

NONE

FIELD TRIP REQUIREMENTS:

Not required

TRANSFER APPLICABILITY:

Not applicable to the Associate Degree

CID:

TOTAL LECTURE HOURS:

TOTAL LAB HOURS:

48 - 54

TOTAL CONTACT HOURS:

48 - 54

OUTSIDE-OF-CLASS HOURS:

TOTAL STUDENT LEARNING HOURS:

48 - 54

STUDENT LEARNING OBJECTIVES:

Upon successful completion of the course the student will be able to:

1. Demonstrate understanding of the mathematical concepts required for the beginning algebra and geometry level as defined in the district course outline;
2. Perform the basic arithmetic operations required for the beginning algebra and geometry level as defined in the district course outline.
3. Translate verbal expressions into algebraic expressions and simplify them as needed for the beginning algebra and geometry level as defined in the district course outline.
4. Apply mathematical properties required for the beginning algebra and geometry level as defined in the district course outline for Math 46.
5. Apply the appropriate skills in application problems required for the beginning algebra and geometry level as defined in the district course outline.

Current Report

MATH 015B

CIC Approval:
BOT APPROVAL:
STATE APPROVAL:
EFFECTIVE TERM:

**SAN DIEGO COMMUNITY COLLEGE DISTRICT
CITY, AND MESA COLLEGES
ASSOCIATE DEGREE COURSE OUTLINE**

SECTION I

SUBJECT AREA AND COURSE NUMBER: Mathematics 015B

COURSE TITLE:

Elementary Algebra and Geometry Refresher

Units:

1

Pass/No Pass

CATALOG COURSE DESCRIPTION:

This course is a review of elementary algebra and geometry skills needed for success in subsequent mathematics courses. Students receive instruction and academic support in mathematics concepts, arithmetic operations, algebraic expressions, mathematical properties, and their application to elementary algebra- and geometry-specific mathematical problems. This course is designed for students who need to refresh their elementary algebra and geometry skills or need additional support in subsequent mathematics courses.

REQUISITES:

NONE

FIELD TRIP REQUIREMENTS:

Not required

TRANSFER APPLICABILITY:

Not applicable to the Associate Degree

CID:

TOTAL LECTURE HOURS:

TOTAL LAB HOURS:

48 - 54

TOTAL CONTACT HOURS:

48 - 54

OUTSIDE-OF-CLASS HOURS:

TOTAL STUDENT LEARNING HOURS:

48 - 54

STUDENT LEARNING OBJECTIVES:

Upon successful completion of the course the student will be able to:

1. Demonstrate understanding of the mathematical concepts required for the beginning algebra and geometry level as defined in the district course outline;
2. Perform the basic arithmetic operations required for the beginning algebra and geometry level as defined in the district course outline.
3. Translate verbal expressions into algebraic expressions and simplify them as needed for the beginning algebra and geometry level as defined in the district course outline.
4. Apply mathematical properties required for the beginning algebra and geometry level as defined in the district course outline for Math 46.
5. Apply the appropriate skills in application problems required for the beginning algebra and geometry level as defined in the district course outline.

SECTION II

I. COURSE OUTLINE AND SCOPE:

A. Outline Of Topics:

The following topics are included in the framework of the course but are not intended as limits on content. The order of presentation and relative emphasis will vary with each instructor.

I. Mathematical Concepts

- A. Integer exponents
- B. Polynomial and rational expressions
- C. Linear equations and inequalities
- D. Graphs of linear functions
- E. Two-dimensional geometric shapes

II. Arithmetic Operations

- A. Real numbers
- B. Integer exponents
- C. Polynomial and rational expressions.

III. Algebraic Expressions

- A. Translate verbal phrases into algebraic equations
- B. Translate verbal phrases into algebraic inequalities

IV. Mathematical Properties

- A. Integer exponents
- B. Polynomial and rational expressions
- C. Linear equations and inequalities
- D. Graphs of linear functions
- E. Two-dimensional geometric shapes

V. Application Problems to include but not limited to

- A. Distance/Rate/Time
- B. Ratio
- C. Mixture
- D. Area and perimeter

B. Reading Assignments:

Reading assignments are required and may include, but are not limited to, the following:

- I. Reading and studying the related chapters in the beginning algebra and geometry texts identified in the district course outline.
- II. Reading articles from current journals, such as Math Horizons, and newspapers pertaining to applications of beginning algebra topics as indicated in the district course outline.

C. Writing Assignments:

Writing assignments are required and may include, but are not limited to, the following:

- I. Short paragraphs on the methods of solving various types of beginning algebra problems.
- II. Reflective journal containing common errors and their corrections.
- III. Report on the life of a mathematician.

D. Appropriate Outside Assignments:

Outside assignments may include, but are not limited to, the following:

- I. Reviewing, and where necessary, rewriting class notes.
- II. Practicing problems from the appropriate sections.
- III. Writing short papers on related mathematical topics such as equations, functions, graphing and geometric shapes.
- IV. Completing reports on exploratory activities performed in class, such as calculator investigations.
- V. designing a space using a variety of geometric shapes;
- VI. computer explorations and tutorials such as graphing and factoring using Maple or Derive.
- VII. viewing video tapes on topics such as absolute value and area.

E. Appropriate Assignments that Demonstrate Critical Thinking:

Critical thinking assignments are required and may include, but are not limited to, the following:

- I. Interpreting mathematical principles and techniques, at the appropriate level, to solve broader and more difficult problems than those covered in class.
- II. Solving a variety of application problems, at the appropriate level, which require the appropriate use of techniques and theorems learned in class.

2. METHODS OF EVALUATION:

A student's grade will be based on multiple measures of performance unless the course requires no grade. Multiple

SECTION II

I. COURSE OUTLINE AND SCOPE:

A. Outline Of Topics:

The following topics are included in the framework of the course but are not intended as limits on content. The order of presentation and relative emphasis will vary with each instructor.

I. Mathematical Concepts

- A. Integer exponents
- B. Polynomial and rational expressions
- C. Linear equations and inequalities
- D. Graphs of linear functions
- E. Two-dimensional geometric shapes

II. Arithmetic Operations

- A. Real numbers
- B. Integer exponents
- C. Polynomial and rational expressions.

III. Algebraic Expressions

- A. Translate verbal phrases into algebraic equations
- B. Translate verbal phrases into algebraic inequalities

IV. Mathematical Properties

- A. Integer exponents
- B. Polynomial and rational expressions
- C. Linear equations and inequalities
- D. Graphs of linear functions
- E. Two-dimensional geometric shapes

V. Application Problems to include but not limited to

- A. Distance/Rate/Time
- B. Ratio
- C. Mixture
- D. Area and perimeter

B. Reading Assignments:

Reading assignments are required and may include, but are not limited to, the following:

- I. Reading and studying the related chapters in the beginning algebra and geometry texts identified in the district course outline.
- II. Reading articles from current journals, such as Math Horizons, and newspapers pertaining to applications of beginning algebra topics as indicated in the district course outline.

C. Writing Assignments:

Writing assignments are required and may include, but are not limited to, the following:

- I. Short paragraphs on the methods of solving various types of beginning algebra problems.
- II. Reflective journal containing common errors and their corrections.
- III. Report on the life of a mathematician.

D. Appropriate Outside Assignments:

Outside assignments may include, but are not limited to, the following:

- I. Reviewing, and where necessary, rewriting class notes.
- II. Practicing problems from the appropriate sections.
- III. Writing short papers on related mathematical topics such as equations, functions, graphing and geometric shapes.
- IV. Completing reports on exploratory activities performed in class, such as calculator investigations.
- V. designing a space using a variety of geometric shapes;
- VI. computer explorations and tutorials such as graphing and factoring using Maple or Derive.
- VII. viewing video tapes on topics such as absolute value and area.

E. Appropriate Assignments that Demonstrate Critical Thinking:

Critical thinking assignments are required and may include, but are not limited to, the following:

- I. Interpreting mathematical principles and techniques, at the appropriate level, to solve broader and more difficult problems than those covered in class.
- II. Solving a variety of application problems, at the appropriate level, which require the appropriate use of techniques and theorems learned in class.

2. METHODS OF EVALUATION:

A student's grade will be based on multiple measures of performance unless the course requires no grade. Multiple measures may include, but are not limited to, the following:

measures may include, but are not limited to, the following:

Any student wishing to use this course to improve a math placement level must take a proctored final exam.

- I. Completion of the assigned topics as deemed necessary by the initial assessment.
- II. Completion of the assigned assessments at the appropriate level.
- III. An in-class comprehensive final exam for beginning algebra and geometry.

3. METHODS OF INSTRUCTION:

Methods of instruction may include, but are not limited to, the following:

- * Audio-Visual
- * Collaborative Learning
- * Computer Assisted Instruction
- * Distance Education (Fully online)
- * Learning Modules
- * Lecture
- * Lecture Discussion

4. REQUIRED TEXTS AND SUPPLIES:

Textbooks may include, but are not limited to:

TEXTBOOKS:

1. Bass, Alan. Geometry, Fundamental Concepts and Applications, 1st ed. Addison Wesley, 2008, ISBN: 9780321473318
2. Bittinger, Martin, et al. Elementary and Intermediate Algebra, Concepts and Applications, 7th ed. Pearson, 2018, ISBN: 9780134462707
3. Martin-Gay, Elayn. Beginning and Intermediate Algebra, 6th ed. Pearson, 2016, ISBN: 9780134193090

MANUALS:

PERIODICALS:

SOFTWARE:

1. ALEKS, McGraw Hill, latest ed.
2. MyOpenMath, Open Educational Resources, latest ed.

SUPPLIES:

1. Scientific calculator
2. Flash drive
3. Protractor
4. Graph paper

ORIGINATOR: Juan U. Bernal

CO-CONTRIBUTOR(S)
DATE: 02/13/2021

Status: Active

Date Printed: 02/18/2023

Any student wishing to use this course to improve a math placement level must take a proctored final exam.

- I. Completion of the assigned topics as deemed necessary by the initial assessment.
- II. Completion of the assigned assessments at the appropriate level.
- III. An in-class comprehensive final exam for beginning algebra and geometry.

3. METHODS OF INSTRUCTION:

Methods of instruction may include, but are not limited to, the following:

- * Audio-Visual
- * Collaborative Learning
- * Computer Assisted Instruction
- * Distance Education (Fully online)
- * Learning Modules
- * Lecture
- * Lecture Discussion

4. REQUIRED TEXTS AND SUPPLIES:

Textbooks may include, but are not limited to:

TEXTBOOKS:

1. Bass, Alan. Geometry, Fundamental Concepts and Applications, 1st ed. Addison Wesley, 2008, ISBN: 9780321473318
2. Bittinger, Martin, et al. Elementary and Intermediate Algebra, Concepts and Applications, 7th ed. Pearson, 2018, ISBN: 9780134462707
3. Martin-Gay, Elayn. Beginning and Intermediate Algebra, 6th ed. Pearson, 2016, ISBN: 9780134193090

MANUALS:

PERIODICALS:

SOFTWARE:

SUPPLIES:

1. Scientific calculator
2. Flash drive
3. Protractor
4. Graph paper

ORIGINATOR: Juan U. Bernal

ORIGINATION DATE: 02/13/2021

PROPOSAL ORIGINATOR: Julia McMenamin

CO-CONTRIBUTOR(S)

PROPOSAL DATE: 02/10/2023

Status: Pending

Date Printed: 02/18/2023

Previous Report

SAN DIEGO COMMUNITY COLLEGE DISTRICT

CITY , MESA AND MIRAMAR COLLEGES

Course Outline of Record:
Curriculum Proposal Report

SECTION I

- I. **Subject Area:** Mathematics
- II. **Course Number:** 015B
- III. **Course Title:** Elementary Algebra and Geometry Refresher
- IV. **Disciplines (Instructor Minimum Qualifications):** Mathematics
- V. **Additional Required Qualifications:** This course is a review of elementary algebra and geometry skills needed for success in subsequent mathematics courses. Students receive instruction and academic support in mathematics concepts, arithmetic operations, algebraic expressions, mathematical properties, and their application to elementary algebra- and geometry-specific mathematical problems. This course is designed for students who need to refresh their elementary algebra and geometry skills or need additional support in subsequent mathematics courses.
- VI. **Family:**
- VII. **Current Short Title:** Elem Algebra/Geom Refresher
- VIII. **Course Is Active/Where?** CITY , MESA AND MIRAMAR
- IX. **Originating Campus:** MESA
- X. **Action Proposed:** Course Revision (May Include Activation)
- XI. **Distance Education Proposed At:**
- XII. **Proposal Originating Date:** 02/13/2021
- XIII. **Proposed Start Semester:** Fall 2022
- XIV. **Field Trip:** Not required
- XV. **Grading Option:** Pass/No Pass
- XVI. **Current Short Description:** Reviews topics in elementary algebra and geometry to prepare for intermediate algebra.

SECTION II

COURSE ENROLLMENT INFORMATION

- I. **Requisites:** NONE
- II. **Current Degree Applicability:** Not applicable to the Associate Degree
- III. **Current Basic Skills Designation:** B - Basic Skills Course
- IV. **Repeatability:** Course may be taken 1 time(s)
- V. **Course Equivalency:** No
- VI. **Additional Information:**
- VII. **Additional Textbook Information:** Texts are most current editions.

COURSE ANALYSIS DATA

- I. **Reason for Proposed Action:** Six year review including text review and update for currency. (Course revision is for six year review.)
- II. **How Does The Course Fit The College Mission?** 1. Basic Skills/ESL
- III. **Current Transfer Options:**
- IV. **Proposed College/District Purpose:** 1. Course is not included in required units for major
- V. **Extraordinary Cost to the College:** None.
- VI. **Library Resource Materials:** None.

GENERAL EDUCATION ANALYSIS

REQUISITES ANALYSIS

Current Report

SAN DIEGO COMMUNITY COLLEGE DISTRICT

CITY AND MESA COLLEGES

Course Outline of Record:
Curriculum Proposal Report

SECTION I

- I. **Subject Area:** Mathematics
- II. **Course Number:** 015B
- III. **Course Title:** Elementary Algebra and Geometry Refresher
- IV. **Disciplines (Instructor Minimum Qualifications):** Mathematics
- V. [REDACTED]
- VI. **Family:**
- VII. **Current Short Title:** Elem Algebra/Geom Refresher
- VIII. **Course Is Active/Where?** CITY , MESA AND MIRAMAR
- IX. **Originating Campus:** MIRAMAR
- X. **Action Proposed:** Course Deactivation *(Active at another College)*
- XI. **Distance Education Proposed At:**
- XII. **Proposal Originating Date:** 02/10/2023
- XIII. **Proposed Start Semester:** Fall 2024
- XIV. **Field Trip:** Not required
- XV. **Grading Option:** Pass/No Pass
- XVI. **Current Short Description:** Reviews topics in elementary algebra and geometry to prepare for intermediate algebra.

SECTION II

COURSE ENROLLMENT INFORMATION

- I. **Requisites:** NONE
- II. **Current Degree Applicability:** Not applicable to the Associate Degree
- III. **Current Basic Skills Designation:** B - Basic Skills Course
- IV. **Repeatability:** Course may be taken 1 time(s)
- V. **Course Equivalency:** No
- VI. **Additional Information:**
- VII. **Additional Textbook Information:** Texts are most current editions.

COURSE ANALYSIS DATA

- I. **Reason for Proposed Action:** We have not offered this course. We would like to deactivate.
- II. **How Does The Course Fit The College Mission?** 1. Basic Skills/ESL
- III. **Current Transfer Options:**
- IV. **Proposed College/District Purpose:** 1. Course is not included in required units for major
- V. **Extraordinary Cost to the College:** None.
- VI. **Library Resource Materials:** None.

GENERAL EDUCATION ANALYSIS

REQUISITES ANALYSIS

SECTION III

COURSE DISTANCE EDUCATION INFORMATION

I. MESA

II. Distance Education Methods of Instruction: 1. On-line course

III. Other Distance Education Methods:

IV. Type and frequency of contact may include, but is not limited to:

1. E-mail
once a week or as needed.
2. Orientation Sessions
may be required on an individual basis.
3. Threaded Conferencing
weekly or as needed to discuss issues common to most students.

V. List of Techniques: Timed On-line quizzes and tests. On-line homework. On campus exam may be required.

VI. How to Evaluate Students for Achieved Outcomes: Performance on timed on-line quizzes and tests or an on campus final exam.

VII. Additional Resources/Materials/Information: Provide text/software alternatives for any non-text content. Distance education techniques used in this course will be accessible to individuals with disabilities (Sections 504 and 508 of the Rehabilitation Act). Requests for technology accommodations will be met by working with the Adaptive Technology Specialist to ensure compliance with the Americans with Disabilities Act (ADA).

VIII. Audio Visual Library Materials: NO

IX. CITY

X. Distance Education Methods of Instruction: 1. On-line course

XI. Other Distance Education Methods:

XII. Type and frequency of contact may include, but is not limited to:

1. E-mail
once a week or as needed.
2. Orientation Sessions
may be required on an individual basis.
3. Threaded Conferencing
weekly or as needed to discuss issues common to most students.

XIII. List of Techniques: Timed On-line quizzes and tests. On-line homework. On campus final exam will be required.

XIV. How to Evaluate Students for Achieved Outcomes: Performance on timed on-line quizzes and tests or an on campus final exam.

XV. Additional Resources/Materials/Information: Provide text/software alternatives for any non-text content. Distance education techniques used in this course will be accessible to individuals with disabilities (Sections 504 and 508 of the Rehabilitation Act). Requests for technology accommodations will be met by working with the Adaptive Technology Specialist to ensure compliance with the Americans with Disabilities Act (ADA).

XVI. Audio Visual Library Materials: NO

XVII. MIRAMAR

XVIII. Distance Education Methods of Instruction: 1. On-line course

XIX. Other Distance Education Methods:

XX. Type and frequency of contact may include, but is not limited to:

1. E-mail
once a week or as needed.
2. Orientation Sessions
may be required on an individual basis.
3. Threaded Conferencing
weekly or as needed to discuss issues common to most students.

XXI. List of Techniques: Timed On-line quizzes and tests. On-line homework. On campus final exam will be required.

XXII. How to Evaluate Students for Achieved Outcomes: Performance on timed on-line quizzes and tests or an on campus final exam.

XXIII. Additional Resources/Materials/Information: Provide text/software alternatives for any non-text content. Distance education techniques used in this course will be accessible to individuals with disabilities (Sections 504 and 508 of the Rehabilitation Act). Requests for technology accommodations will be met by working with the Adaptive Technology Specialist to ensure compliance with the Americans with Disabilities Act (ADA).

XXIV. Audio Visual Library Materials: NO

SECTION IV

COURSE STUDENT LEARNING OUTCOME(S)

CITY

- Upon successful completion of the course the student will be able to apply algebra and geometry skills to standard

SECTION III

COURSE DISTANCE EDUCATION INFORMATION

I. MESA

II. Distance Education Methods of Instruction: 1. On-line course

III. Other Distance Education Methods:

IV. Type and frequency of contact may include, but is not limited to:

1. E-mail
once a week or as needed.
2. Orientation Sessions
may be required on an individual basis.
3. Threaded Conferencing
weekly or as needed to discuss issues common to most students.

V. List of Techniques: Timed On-line quizzes and tests. On-line homework. On campus exam may be required.

VI. How to Evaluate Students for Achieved Outcomes: Performance on timed on-line quizzes and tests or an on campus final exam.

VII. Additional Resources/Materials/Information: Provide text/software alternatives for any non-text content. Distance education techniques used in this course will be accessible to individuals with disabilities (Sections 504 and 508 of the Rehabilitation Act). Requests for technology accommodations will be met by working with the Adaptive Technology Specialist to ensure compliance with the Americans with Disabilities Act (ADA).

VIII. Audio Visual Library Materials: NO

IX. CITY

X. Distance Education Methods of Instruction: 1. On-line course

XI. Other Distance Education Methods:

XII. Type and frequency of contact may include, but is not limited to:

1. E-mail
once a week or as needed.
2. Orientation Sessions
may be required on an individual basis.
3. Threaded Conferencing
weekly or as needed to discuss issues common to most students.

XIII. List of Techniques: Timed On-line quizzes and tests. On-line homework. On campus final exam will be required.

XIV. How to Evaluate Students for Achieved Outcomes: Performance on timed on-line quizzes and tests or an on campus final exam.

XV. Additional Resources/Materials/Information: Provide text/software alternatives for any non-text content. Distance education techniques used in this course will be accessible to individuals with disabilities (Sections 504 and 508 of the Rehabilitation Act). Requests for technology accommodations will be met by working with the Adaptive Technology Specialist to ensure compliance with the Americans with Disabilities Act (ADA).

XVI. Audio Visual Library Materials: NO

XVII. MIRAMAR

XVIII. Distance Education Methods of Instruction: 1. On-line course

XIX. Other Distance Education Methods:

XX. Type and frequency of contact may include, but is not limited to:

1. E-mail
once a week or as needed.
2. Orientation Sessions
may be required on an individual basis.
3. Threaded Conferencing
weekly or as needed to discuss issues common to most students.

XXI. List of Techniques: Timed On-line quizzes and tests. On-line homework. On campus final exam will be required.

XXII. How to Evaluate Students for Achieved Outcomes: Performance on timed on-line quizzes and tests or an on campus final exam.

XXIII. Additional Resources/Materials/Information: Provide text/software alternatives for any non-text content. Distance education techniques used in this course will be accessible to individuals with disabilities (Sections 504 and 508 of the Rehabilitation Act). Requests for technology accommodations will be met by working with the Adaptive Technology Specialist to ensure compliance with the Americans with Disabilities Act (ADA).

XXIV. Audio Visual Library Materials: NO

SECTION IV

COURSE STUDENT LEARNING OUTCOME(S)

CITY

- Upon successful completion of the course the student will be able to apply algebra and geometry skills to standard problems.

problems.

MESA

- Students will complete a particular portion of their pie.
- Students will complete a particular portion of their pie.
- Students will achieve their personal mathematical goal with this class as identified on their entry survey.
- Upon successful completion of the course the student will be able to apply algebra and geometry skills to standard problems.
- Students will achieve their personal mathematical goal with this class as identified on the entry survey.
- Students will achieve their personal mathematical goal with this class as identified on the entry survey.

MIRAMAR

- Students will achieve their personal mathematical goal with this class as identified on their entry survey.

SECTION V

COURSE DATA ADMINISTRATION ELEMENTS

I. Codes:

California Classification: (Y Credit Course)

TOP Code: 1702.00 Mathematics Skills

SAM Code: E - Non Occupational

Course Prior to College Level (CB21): Y - Not applicable. Level of course is not one of the levels listed above, may be above level A (transferable) or below level C (more than 3 levels below transfer level).

Funding Agency Category (CB23): Not Applicable (funding not used to develop course)

Course Program Status (CB24): Not program-applicable

Course Gen Education Status (CB25): Y = Not applicable

Course Support Course Status (CB26): S = Course is a Support Course

Major Restriction Code: NONE

II. Lab Units: 1.00

Total Units: 1

Lecture Hours Min: 0.00 **Max:** 0.00

Lab Hours Min: 48.00 **Max:** 54.00

Other Hours Min: 0.00 **Max:** 0.00

Total Contact Hours Min: 48.00 **Max:** 54.00

Outside-of-Class Hours Min: 0.00 **Max:** 0.00

Total Student Learning Hours Min: 48.00 **Max:** 54.00

FTEF Lecture Min: 0.0000 **Max:**

FTEF Lab Min: 0.2000 **Max:**

FTEF Total Min: 0.2000 **Max:**

III. Last Time Pre/Co Requisite Update:

IV. Last Outline Revision Date: 09/09/2021

V. CIC Approval: 09/09/2021

VI. BOT Approval:

VII. State Approval:

VIII. Revised State Approval:

IX. Course Approval Effective Date: Fall 2022

SECTION VI

CREDIT FOR PRIOR LEARNING

MESA

- Students will complete a particular portion of their pie.
- Students will complete a particular portion of their pie.
- Students will achieve their personal mathematical goal with this class as identified on their entry survey.
- Upon successful completion of the course the student will be able to apply algebra and geometry skills to standard problems.
- Students will achieve their personal mathematical goal with this class as identified on the entry survey.
- Students will achieve their personal mathematical goal with this class as identified on the entry survey.

SECTION V

COURSE DATA ADMINISTRATION ELEMENTS

I. Codes:

California Classification: (Y Credit Course)

TOP Code: 1702.00 Mathematics Skills

SAM Code: E - Non Occupational

Course Prior to College Level (CB21): Y - Not applicable. Level of course is not one of the levels listed above, may be above level A (transferable) or below level C (more than 3 levels below transfer level).

Funding Agency Category (CB23): Not Applicable (funding not used to develop course)

Course Program Status (CB24): Not program-applicable

Course Gen Education Status (CB25): Y = Not applicable

Course Support Course Status (CB26): S = Course is a Support Course

Major Restriction Code: NONE

II. Lab Units: 1.00

Total Units: 1

Lecture Hours Min: 0.00 **Max:** 0.00

Lab Hours Min: 48.00 **Max:** 54.00

Other Hours Min: 0.00 **Max:** 0.00

Total Contact Hours Min: 48.00 **Max:** 54.00

Outside-of-Class Hours Min: 0.00 **Max:** 0.00

Total Student Learning Hours Min: 48.00 **Max:** 54.00

FTEF Lecture Min: 0.0000 **Max:**

FTEF Lab Min: 0.2000 **Max:**

FTEF Total Min: 0.2000 **Max:**

III. Last Time Pre/Co Requisite Update:

IV. Last Outline Revision Date: 09/09/2021

V. CIC Approval:

VI. BOT Approval:

VII. State Approval:

VIII. Revised State Approval:

IX. Course Approval Effective Date:

SECTION VI

CREDIT FOR PRIOR LEARNING