



**Bow Valley
College**

Course Outline

MATH0801

Prep Math 10

Fall 2025 - Current

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MATH0801 Prep Math 10

COURSE DESCRIPTION

This course develops students' math skills. Students study number concepts, patterns and relations, variables and equations, measurement, geometry, and statistics. This course prepares students for Math 10C.

| | |
|--------------------|--|
| REQUISITES | <p>Complete 1 of the following</p> <ul style="list-style-type: none"> • Group 1 • Complete all of the following • Earn a minimum grade of C+ in each of the following courses <ul style="list-style-type: none"> ◦ MATHo703 - Basic Math 3 (5) • Complete the following courses <ul style="list-style-type: none"> ◦ ENGLo704 - Language Arts 4 (10) • Group 2 • Complete all of the following • Earn a minimum grade of C+ in each of the following courses <ul style="list-style-type: none"> ◦ MATHo703 - Basic Math 3 (5) • Complete the following courses <ul style="list-style-type: none"> ◦ READo104 - Reading 4 (5) ◦ WRITo104 - Writing 4 (5) |
| EQUIVALENTS | None |
| CREDITS | 5 |
| HOURS | 100 |
| ELIGIBLE FOR PLAR | No |
| ZERO TEXTBOOK COST | No |

COURSE LEARNING OUTCOMES

Bow Valley College is committed to ensuring our graduates can demonstrate their abilities in key areas that will make them effective citizens and encourage their development as lifelong learners. In addition to the discipline-specific skills that learners acquire in their programs, the College has identified ten learning outcomes.

College-Wide Outcomes:

1. Communication
2. Thinking Skills
3. Numeracy and Financial Literacy
4. Working with Others
5. Digital Literacy
6. Positive Attitudes and Behaviours
7. Continuous Learning
8. Health and Wellness Awareness
9. Citizenship and Intercultural Competence
10. Environmental Sustainability

| # | COURSE LEARNING OUTCOME(S) | COLLEGE WIDE OUTCOMES SUPPORTED |
|---|---|---------------------------------------|
| 1 | Demonstrate knowledge of the interrelationship of the sets of numbers within the real number system. | 2,3,6,7 |
| 2 | Demonstrate an understanding of and proficiency with calculations on rational numbers, decide which arithmetic operations can be used to solve problems and then solve the problem. | 2,3,6,7 |
| 3 | Generalize arithmetic operations from the set of rational numbers to the set of polynomials. | 2,3,6,7 |
| 4 | Manipulate, solve and verify equations and inequalities. | 2,3,6,7 |
| 5 | Generalize, design and justify mathematical procedures, using appropriate patterns. | 2,3,6,7 |
| 6 | Solve problems using perimeter, area, surface area and volume | 2,3,6,7 |
| 7 | Solve problems using angles and triangles | 2,3,6,7 |
| 8 | Create and analyze patterns on a Cartesian plane. | 2,3,6,7 |
| 9 | Use Essential Skills to solve math problems. | 1,2,3,4,7 |

COURSE MODULES AND SCHEDULE

**Course schedule subject to change, depending on delivery mode and term of study. For exact dates, please consult the Course Offering Information in Brightspace.*

WEEK/HOURS MODULES

| | |
|---------|---------------------------------------|
| Week 1 | Unit 1: Pre-Algebra |
| Week 2 | Unit 1: Pre-Algebra |
| Week 3 | Unit 2: Geometry |
| Week 4 | Unit 2: Geometry |
| Week 5 | Unit 3: Shape and Space |
| Week 6 | Unit 3: Shape and Space |
| Week 7 | Unit 4: Polynomials |
| Week 8 | Unit 4: Polynomials |
| Week 9 | Unit 4: Polynomials |
| Week 10 | Unit 5: Equations and Problem Solving |
| Week 11 | Unit 5: Equations and Problem Solving |
| Week 12 | Unit 5: Equations and Problem Solving |
| Week 13 | Unit 5: Equations and Problem Solving |
| Week 14 | Unit 6: Graphing |
| Week 15 | Unit 6: Graphing |

ASSESSMENT

COURSE

LEARNING ASSESSMENT OUTCOME(S)

WEIGHT

| | | |
|---------|---|-----|
| 1, 2 | Unit 1 Pre-Algebra Assignment | 10% |
| 5, 6, 7 | Unit 2 Geometry Assignment | 14% |
| 5, 6 | Unit 3 Shape and Space Assignment | 14% |
| 3, 5 | Unit 4 Polynomials Assignment | 22% |
| 4, 5, 9 | Unit 5 Equations & Problem-Solving Assignment | 22% |
| 5, 8 | Unit 6 Test Graphing | 18% |

Important: For details on each assignment and exam, please see the Course Offering Information.

PERFORMANCE STANDARDS

A minimum grade of D is required to pass this course. However, a program may require a higher grade in this course to progress in the program or to meet specific program completion requirements.

A minimum grade of C+ is required to move on to MAT1791, Math 10C; a minimum of D to move on to MAT1793, Math 10-3 or GED Prep.

Please consult with the program area or contact the program chair for further details. A minimum Grade Point Average of 2.0 is required for graduation.

GRADING SCHEME

| Grade | Percentage | Grade Point | Description |
|-------|--------------|-------------|--|
| A+ | 95-100 | 4.0 | Exceptional: superior knowledge of subject matter |
| A | 90-94 | 4.0 | Excellent: outstanding knowledge of subject matter |
| A- | 85-89 | 3.67 | |
| B+ | 80-84 | 3.33 | |
| B | 75-79 | 3.0 | Very Good: knowledge of subject matter generally mastered |
| B- | 70-74 | 2.67 | |
| C+ | 67-69 | 2.33 | |
| C | 64-66 | 2.0 | Satisfactory/Acceptable: knowledge of subject matter adequately mastered |
| C- | 60-63 | 1.67 | |
| D+ | 57-59 | 1.33 | |
| D | 50-56 | 1.0 | Minimal Pass |
| F | Less than 50 | 0.0 | Fail: an unsatisfactory performance |

REQUIRED LEARNING RESOURCES

1. **High School Math Preparation**, Fifth Edition by Castle Rock (5th edition.)
2. **Calculator** Casio fx 260 Solar **OR** TI-83 or TI-84 Graphing Calculator

Required technology:

Students require the following minimum technology to be successful in online classes. This technology will allow students to better communicate with their instructors and peers during online sessions.

Students must have access to a **desktop, laptop** or **tablet** that:

- Has reliable internet access
- Allows you to watch video and hear audio
- Has a camera
- Has a microphone
- Supports Microsoft Teams
- Supports D2L
- Allows you to receive and send email through your myBVC account
- Allows you to view PDF and Word documents
- Allows you to create text documents of 500 words and more

Additional learning resources may be found in the Course Offering Information or in Brightspace.

ADDITIONAL INFORMATION

Additional information may be found in the Course Offering Information or in Brightspace.

ACADEMIC ACCOMMODATIONS

Learners with a disability (learning, physical, and/or mental health) may qualify for academic and exam accommodations. For more information, or to apply for accommodations, learners should make an appointment with Accessibility Services in the Learner Success Services (LSS) Department. Accessibility Services can also assist learners who may be struggling with learning but do not have a formal diagnosis. To make an appointment visit LSS on the first floor of the south campus or call 403-410-1440. It is the learner's responsibility to contact Accessibility Services and request academic accommodations. For more information, please visit our website at <http://www.bowvalleycollege.ca/accessibility>.

INSTITUTIONAL POLICIES

Bow Valley College is committed to the highest standards of academic integrity and honesty. Learners are urged to become familiar with and uphold the following policies: Academic Integrity (500-1-7), Learner Code of Conduct, Procedures and Guidelines (500-1-1), Learner Appeals (500-1-12), Attendance (500-1-

10), Grading (500-1-6), Academic Continuance and Graduation (500-1-5), and Electronic Communications (300-2-13). Audio or video recording of lectures, labs, seminars, or any other teaching and learning environment by learners is allowed only with consent of the instructor as part of an approved accommodation plan. Recorded material is to be used solely for personal study and is not being used or distributed without prior written consent from the instructor.

Turnitin:

Students may be required to submit their course work to Turnitin, a third-party service provider engaged by BVC. Turnitin identifies plagiarism by checking databases of electronic books and articles, archived webpages, and previously submitted student papers. Students acknowledge that any course work or essays submitted to Turnitin will be included as source documents in the Turnitin.com reference database, where it will be used solely to detect plagiarism. The terms that apply to a student's use of Turnitin are described on Turnitin.com.

Online Exam Proctoring:

Examinations for this course may require proctoring through an online proctoring service. Online proctoring enables online exam taking within a controlled and monitored environment, thereby enhancing academic integrity. Online proctoring may occur through a variety of methods, including but not limited to:

- a. live online proctoring where a remote invigilator authenticates identity and observes completion of an exam using specialized software and recordings;
- b. automated proctoring where the exam session is recorded and AI (artificial intelligence) analyzed;
- c. browser lockdown that limits access to other applications, websites, copying, printing, screen capture and other functions; or
- d. a combination of both live/automated proctoring and browser lockdown.

Course instructors will review recordings, analyses, and data obtained through online proctoring for academic integrity infractions. It is the student's responsibility to meet the technical, software, location, and identity verification requirements necessary to enable online proctoring.

Further details of these policies are available in the Academic Calendar and on the Bow Valley College website, bowvalleycollege.ca.

Learners are encouraged to keep a copy of this course outline for future reference.

Collection of Personal Information:

This course, including your image and voice, may be recorded and made available to you and other students taking the course section. By attending the class(es) online or in person, you consent to the collection of your personal information. If you do not wish to be recorded, please contact your instructor before starting the course/class to discuss alternative arrangements.

You may use the recordings only for educational purposes and you must not copy, share, or use the recordings for any other purpose without the instructor's express permission.

Your personal information is collected in accordance with section 33(c) of the Freedom of Information and Protection of Privacy Act (Alberta) to deliver academic programming, support learner flexibility, promote universal design for learning principles, and for purposes consistent with the course activities and outcomes. If you have any questions about the collection, disclosure, use, or protection of this information, please contact the College's Access and Privacy Officer at foip@bowvalleycollege.ca.