Math& 141 - Precalculus I
Fall 2021 Item # 3739

Instructor: Dr. Patrick Torres
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Office Hours (via Zoom): 10:30 am – 11:20 am on Mondays, Wednesdays, and Fridays

Note: Email will be the only way to contact me this quarter. I will do my best to respond to your email within 24 hours from when you sent it. If you have not heard from me within 24 hours, you are welcome to email me again. Please note that I generally do not check my emails on weekends and after 5:00 pm on weekdays.

Weekly Virtual Meetings (Optional)

We will have optional meetings on Tuesdays and Thursdays from 10:30 am to 11:20 am in Zoom. A link to the Zoom meetings is given in Canvas. Although attendance is not required for these meetings, it is expected that you attend if you have questions about the course.

Course Information

Description: This course emphasizes graphs and polynomial functions. Other topics include the theory of equations and rational, exponential, inverse, and logarithmic functions. Either MATH& 141 or MATH 138 may be taken for credit, not both. Fulfills the quantitative or symbolic reasoning course requirement at BC.

Prerequisites: Placement by assessment or MATH 099 with a B- or better.

Section: L

Course Materials

- **Textbook (Inclusive Access):** *Precalculus*, by Blitzer, 6th edition, Pearson Publishing Company (ebook access is given in MyLab. A hardcopy is not required.)

- **Graphing Calculator:** A TI-83 or TI-84 is recommended. The Desmos graphing calculator is acceptable.

Course Outcomes

- Perform operations on algebraic expressions.

- Recognize, evaluate, graph, and transform functions, inverse functions, and circles.

- Perform operations with functions, including composition.

- Find rational and complex zeros of polynomials using the theory of polynomial equations.

- Solve equations, inequalities, and systems of linear equations.

- Solve application problems.

How Outcomes Will be Met

- **MyLab Homework:** The due date for each assignment will be posted on MyLab and Canvas. It is absolutely essential for your learning in this class and your retention for future classes that you do all the homework.

- **Textbook Problems:** In addition to the MyLab, it is highly recommended that you work on similar problems found in the textbook for extra practice. Your solutions to these problems will not be collected. However, doing them will help you understand the concepts from each section and will serve as good practice problems as you prepare for your exams.

- **Quizzes:** There will be a timed quiz given in MyLab each Friday except on Weeks 1, 2, 11, and exam weeks. These quizzes will emphasize recently covered material. There will be a total of six quizzes but your lowest quiz score will be dropped.

- **Midterm Exams:** There will be two 50-minute midterm exams which will be completed in MyLab. The exams will be comprehensive on all material covered prior to the exam date. **All exams (including the final) must be taken during their scheduled dates and times which means that they may neither be taken early nor late. Make-up exams will not be given except in cases of serious illness or emergency. Under these circumstances, appropriate documentation (such as hospital or discharge papers) will be required.**

- **Final Exam:** There will be a final exam that will be comprehensive on all material covered in the course. This will be a three-hour, timed exam. It will be open in MyLab on Tuesday, December 14. You may begin the exam anytime thereafter; however, it must be completed by 11:00 pm on Wednesday, December 15. Your written solutions to

selected problems must be uploaded into Canvas by Wednesday, December 15 at 11:59 pm. Instructions on how to do this will be provided on the exam.

Exam Dates

- **Exam 1:** Wednesday, October 27
- **Exam 2:** Wednesday, November 24
- **Final Exam:** Tuesday, December 14 – Wednesday, December 15

Extra Credit

- Extra credit may be offered at the discretion of the instructor. If an extra credit opportunity is offered, it will be announced in class and in Canvas.

- Extra credit will never be offered on an individual basis. Please do not contact me about "what you can do" or any "extra credit" to help boost your own grade. It is not fair or academically honest to offer an extra credit opportunity for one student to boost his/her grade and not offer the same opportunity to everyone else in the class. Since you are a college student, you are expected to work hard and earn the best grade you can on the assessments you are given.

Grading

Grades will be determined by the following weights:

- MyLab Homework ………… 20%
- Five MyLab Quizzes ………. 25%
- Two MyLab Exams ………… 30% (15% each)
- Final Exam …………………….. 25%

Letter grades will be assigned as follows. Each percent grade is the minimum grade needed to obtain the corresponding letter grade.

Percent	0	60	67	70	73	77	80	83	87	90	93
Grade	F	D	D+	C-	C	C+	B-	B	B+	A-	A

I will update grades every 1-2 weeks. However, it may between 5 and 10 business days for exams to be graded. Please exercise patience with that time frame in mind. These grades can

be found under the Grades tab on Canvas. After graded material is sent back, you are welcome to inquire about grading. Please do so respectfully and calmly. If you are upset about a grade, I encourage you to wait until you feel better before speaking to me about it or drafting an email of inquiry.

The College Grading Policy is explained in the current Course Catalog and can also be found at this link: Grading Policy

Help with Canvas

Students can find help with Canvas by following the link here: Student Canvas Help

Instructor's Expectations

- Since all instruction will be given remotely this quarter, regular in-class attendance will not apply. However, it is imperative that you regularly stay in touch with the material, do the necessary assignments, and not fall behind. Be sure to watch out for deadlines.

- If you experience difficulty with the material, I expect you to ask questions right away. Please bear in mind that if a topic is confusing to you, there are probably other people in class who also do not understand it, so it is important for me as the instructor to be aware of this. I am available for appointments to meet virtually if you have questions.

- Have a good attitude. No matter how difficult a job or situation may be, a bad attitude will make it more difficult, while a good attitude will make it easier. With a good attitude, you will ultimately be more successful.

Accessibility

The online elements of this course are designed to be welcoming to, accessible to, and usable by everyone, including students who are English-language learners, have a variety of learning styles, have disabilities, or are new to online learning. Be sure to let me know immediately if you encounter a required element or resource in the course that is not accessible to you. Also, let me know of changes I can make to the course so that it is more welcoming to, accessible to, or usable by students who take this course in the future.

Math Lab Tutoring

This quarter, the Math Lab will be available virtually. Here is a link to a video that describes how students can access the Math Lab: https://www.youtube.com/watch?v=39vUz3NIn6U

Here is a direct link to the Math Lab: https://www.bellevuecollege.edu/asc/math/

Please keep in mind that the Math Lab tutors will be limited to 15 minutes at a time with each student.

Affirmation of Inclusion

Bellevue College affirms the diversity of human identities and experiences and is committed to creating spaces free from harassment and discrimination (4000 Institutional Commitment to Inclusion). Furthermore, Bellevue College rejects all forms of racism, homophobia, sexism, xenophobia, religious intolerance, classism, ableism, ageism, language bias, and hate speech or actions that attempt to silence, threaten, or degrade others.

In classroom settings, we might disagree with views shared in the classroom; however, courteous, and respectful behavior and responses are always expected. When providing criticism, it is important to focus on the ideas and not the person.

Faculty are encouraged to disrupt and address hate speech and behaviors. Students are also encouraged to speak up and advocate when they experience, or witness hate speech and behaviors. Faculty, staff, and students also are encouraged to submit a report to the CARE Team regarding any concerns of discrimination, harassment, or inappropriate and disrespectful conduct.

Reasons of Faith and Conscience

Reasonable Accommodations for Reasons of Faith and Conscience: Students who will be absent from course activities due to reasons of faith or conscience may seek reasonable accommodations so that grades are not impacted. Such requests must be made within the first two weeks of the course to the office of the Associate Vice President of Student Affairs (see Bellevue College Policy 2950 (https://www.bellevuecollege.edu/policies/id2950/)). In the event you feel you are being discriminated against based on faith or conscious, you may refer to the procedures outlined in the college's Discrimination, Harassment and Retaliation Policy 1440P (https://www.bellevuecollege.edu/policies/id-1440p/).

Annual Notice Non-Discrimination (Title IX)

Bellevue College does not discriminate on the basis of race or ethnicity; creed; color; national origin; sex; marital status; sexual orientation; age; religion; genetic information; the presence of any sensory, mental, or physical disability; or veteran status in educational programs and activities which it operates. Bellevue College is prohibited from discriminating in such a manner by college policy and by state and federal law. All college personnel and persons, vendors, and organizations with whom the college does business are required to comply with applicable federal and state statutes and regulations designed to promote affirmative action and equal opportunity.

Reports of gender and sex-based based discrimination, sexual misconduct, or retaliation by a student should be raised with the Title IX office (see 1440P2 for contact information). In cases where the impacted party is a student and the responding party is a college employee, the Title IX coordinator will direct the matter to the Office of Human Resources (HR). All other reports, including all reports where the impacted party is an employee, should be raised with the HR. If a report is against personnel in the Title IX office or HR, it should be submitted to the president's office for referral to an alternate designee.

Equal Opportunity (http://www.bellevuecollege.edu/equal/)

Confidentiality and Mandatory Reporting

As an instructor, one of my responsibilities is to help create a safe learning environment on our campus. It is my goal that you feel able to share information related to your life experiences in classroom discussions, in your written work, and in our one-on-one meetings. I will seek to keep information you share private to the greatest extent possible. However, I am required to share with the Title IX Coordinator any and all information regarding sexual assault and other forms of sexual misconduct (e.g. relationship violence, stalking) that may have occurred on campus or that impacts someone on campus. Students may speak to someone confidentially by contacting the BC Counseling Center at (425) 564-2212. The Title IX Office can be contacted at 425-564-2641 and more information can be found at Title IX (http://www.bellevuecollege.edu/titleix/).

If you have any concerns, you may report to: Report Concerns (https://www.bellevuecollege.edu/reportconcerns/).

Division Statements

The Science Division's Policy on Cheating:

You, the student, are expected to conduct yourself with integrity. If you cheat*, or aid someone else in cheating, you violate a trust. If you cheat, the following actions will be taken:

1. You will receive a grade of "0" on the work (exam, assignment, lab, quiz, etc.) where the cheating occurred. This grade cannot be dropped.

2. A report of the incident will be sent to the Dean of Student Success. The dean may file the report in your permanent record or take further disciplinary action such as suspension or expulsion from the college.

If you feel you have been unfairly accused of cheating, you may appeal. (For a description of due process, see WAC 132H-120 and/or the Student Handbook.)

Cheating includes, but is not limited to, copying answers on tests or assignments, glancing at nearby test papers, swapping papers, stealing, plagiarizing, lying, use of electronic information storage or communication devices to store or share answers and illicitly giving or receiving help on exams or assignments.

Science Division Policy on Netiquette

Students are expected to conduct all online interactions in a mature, professional manner. Professional communication should be void of slang terms, emoticons, statements in all caps, or texting abbreviations. When communicating online, students are expected to be as courteous and respectful to others as you would be in person. Emails and online discussion posts cannot be taken back; be mindful not to send emails or make posts that you might later regret. Instructors reserve the right to take disciplinary action when they determine inappropriate or offensive online behavior has occurred (such as posts or emails that are considered rude, mean, disrespectful and/or discriminatory). Students who violate these expectations will be reported to the Dean of Student Success as a violation of the Student Code of Conduct. The Dean may file the report in your permanent record and/or take further disciplinary action.

Student Conduct Code and Academic Integrity

Any act of academic dishonesty, including cheating, plagiarism (using the ideas or words of another as one's own without crediting the source), and fabrication, and inappropriate/disruptive classroom behavior are violations of the Student Conduct Code of Bellevue College. Examples of disruptive behavior include, but are not limited to, repeatedly talking out of turn, arriving late or leaving early without a valid reason, allowing cell phones to ring, and inappropriate behavior toward the instructor or classmates. The instructor can refer any violation of the Student Conduct Code to the Manager of Student Conduct for investigation. Specific student rights, responsibilities, and appeal procedures are listed in the Student Conduct Code at: Student Code

Important Links

Bellevue College Email and Access to MyBC

See "Important Links" page online for more information about the E-mail and MyBC, Public Safety, the Academic Calendar, the Academic Success Center, and more.

Disability Resource Center (DRC)

The Disability Resource Center serves students with disabilities. Common disabilities include physical, neurological (e.g. Autism, ADD/ADHD), and mental health (e.g. depression, anxiety). If you are a student who has a disability or if you think you may need accommodations in order to have equal access in your classes, programs, activities, and any other services, please contact the DRC.

If you require assistance in an emergency, please meet with your individual instructors to develop a safety plan for while in class and contact the DRC to develop a safety plan for while you are elsewhere on campus.

The DRC office is located in building B Room 132. You can contact the DRC by stopping by the office at B132, calling our front desk phone number (425) 564-2498, emailing drc@bellevuecollege.edu. Deaf students can reach us by calling TTY: (425) 564-6189, or by Skype (account name **DRCatBC**). For more information about the services we offer, including our Initial Access Application, visit our website at Disability Resource Center (http://www.bellevuecollege.edu/drc).

Final Exam Schedule

Note that the final exam may not be taken prior to the date and time in which it is scheduled according to the course calendar. Please keep this in mind when you make your end-of-the-quarter travel plans.

[Final Exam Schedule](#)

Additional Information

A note about accessing Canvas from the People's Republic of China: some users have reported that they do not have full access to all Canvas functionality from within the People's Republic of China. This appears to be due to Canvas' parent company, Instructure, not fully committing to Chinese government requirements regarding internet operations within the country. The Chinese government does not inform foreign entities of their policy updates; therefore, Bellevue College cannot anticipate access to Canvas.

If you will be in China during the quarter, you should prepare for intermittent and uncertain access to Canvas.

Source: [Access to Canvas in China](https://support.canvas.fsu.edu/kb/article/1157-access-to-canvas-in-china/) (https://support.canvas.fsu.edu/kb/article/1157-access-to-canvas-in-china/)

Syllabus Disclaimer

I reserve the right to change anything on this syllabus. You will be informed of any changes that are made to the syllabus.

Prerequisite Topics

The following five sections emphasize topics that you should have studied in your algebra courses. We will not go over these topics thoroughly, but it is imperative that you have a solid grasp on these topics since they will be needed throughout the course. Math& 141 officially begins at Section 1.1.

- P4 – Polynomials
- P5 – Factoring Polynomials
- P6 – Rational Expressions
- P7 – Equations
- P9 – Linear Inequalities and Absolute Value Inequalities

Course Topics for Math 141

- 1.1 – Graphs and Graphing Utilities
- 1.2 – Basics of Functions and Their Graphs
- 1.3 – More on Functions and Their Graphs
- 1.4 – Linear Functions and Slope
- 1.5 – More on Slope
- 1.9 – Distance and Midpoint Formulas; Circles
- 7.1 – Systems of Linear Equations in Two Variables
- 7.2 – Systems of Linear Equations in Three Variables
- 7.4 – Systems of Nonlinear Equations in Two Variables
- 1.6 – Transformations of Functions
- 1.7 – Combinations of Functions; Composite Functions
- 1.8 – Inverse Functions
- 2.1 – Complex Numbers
- 2.2 – Quadratic Functions
- 2.3 – Polynomial Functions and Their Graphs
- 2.4 – Dividing Polynomials; Remainder and Factor Theorems
- 2.5 – Zeros of Polynomial Functions
- 2.6 – Rational Functions and Their Graphs
- 2.7 – Polynomial and Rational Inequalities
- 3.1 – Exponential Functions
- 3.2 – Logarithmic Functions
- 3.4 – Exponential and Logarithmic Equations
- 3.5 – Exponential Growth and Decay; Modeling Data
- 8.1 – Matrix Solutions to Linear Systems
- 8.2 – Inconsistent and Dependent Systems and Their Applications

Tentative Calendar (this is subject to change)

Mo	W	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
October	1	**September 27** **Syllabus** **Begin Prerequisite HW (MyMathLab)**	**28** 1.1 & 1.2	**29** 1.3	**30**	**October 1** 1.4 **Prerequisites HW Due**
	2	**4** 1.5	**5**	**6** 1.9	**7**	**8** 7.1 & 7.2
	3	**11** 7.4	**12**	**13** 1.6	**14**	**15** 1.6 **Quiz #1**
	4	**18** 1.7	**19** Faculty Professional Development Day **NO CLASSES**	**20** 1.8	**21**	**22** 1.8 **Quiz #2**
	5	**25** 2.1	**26**	**27** **Exam #1**	**28**	**29** 2.2
November	6	**November 1** 2.3	**2**	**3** 2.4	**4**	**5** 2.5 **Quiz #3**
	7	**8** 2.6	**9**	**10** 2.7	**11** Veterans Day **NO CLASSES**	**12** 2.7 **Quiz #4**
	8	**15** 3.1	**16**	**17** 3.2	**18**	**19** 3.2 **Quiz #5**
	9	**22** 3.4	**23**	**24** **Exam #2**	**25**	**26** 3.4
December	10	**29** 3.5	**30**	**December 1** 3.5	**2**	**3** **Quiz #6**
	11	**6** 8.1	**7**	**8** 8.1 & 8.2	**9**	**10** 8.2
	12	**13**	**14** **Final Exam**	**15** **Final Exam**	**16** **End of Fall Quarter**	**17**