***ALGEBRA FOR CALCULUS BOOST MATH 10675 -XXX CRN XXXXX***

***Spring 2024***

**INSTRUCTOR**: **OFFICE**:

**PHONE:** **E-MAIL:**

**OFFICE HOURS**: Other times by appointment. The department offers special Pathways Tutoring times with Pathways instructors as tutors. Please see the tutoring schedule on Canvas.

**COURSE GOALS:** The purpose of this course is to develop conceptual understanding and fluency with algebraic techniques necessary for success in Calculus. We will study the notions of rate of change, average rate of change, elementary functions and graphs, including polynomial, rational, exponential, and logarithmic functions. For more detailed learning outcomes, click [here](https://www-s3-live.kent.edu/s3fs-root/s3fs-public/file/10675_10775_11010.pdf).

**KENT CORE REQUIREMENT:** This course may be used to satisfy the Kent Core Requirement. The Kent Core is the foundation of the university's mission to prepare students to live in today's complex, global society. It broadens intellectual perspectives, fosters ethical and humanitarian values and prepares students for responsible citizenship and productive careers.

**COURSE PREREQUISITE:** You are expected to have successfully completed (with a grade of C or better) MATH 00022 here at Kent or have an appropriate placement score on the university ALEKS placement assessment. If you do not satisfy these prerequisites, the Registrar may de-register you from this course.

**MATERIALS NEEDED:**

**TEXT:** Carlson, M., O’Bryan, A., Oehrtman, M. & Moore, K., (2022). ***PreCalculus, Pathways to Calculus, A Problem-Solving Approach.  Student Workbook, 9th edition.***Published by Great River Learning and available at the KSU bookstore for $110.80.  With this workbook, you will have access to an online text and an online homework system.  Pages of the workbook will be checked and/or collected daily, so you need to bring the workbook with you to class EVERY CLASS DAY, beginning the first day of class. I don't believe this new 9th edition is available anywhere except at the bookstore.  Please **don't** purchase an earlier edition if you find it online.

**CALCULATOR:**  A **graphing calculator** for class activities and homework assignments is highly recommended. If you don’t have one, you might consider borrowing one. You may use the software, [Desmos](https://www.desmos.com/calculator), for homework and activities, but access to the site will not be allowed during exams. Please bring the calculator to class ***every day.***

I will be using a TI\*84 plus for in-class demonstrations

**ESSENTIAL WEBSITES:**

**CANVAS:** You can access ourCanvas course via Flashline. It includes a direct link to our Pathways course materials, important course documents (syllabus, daily schedule, exam dates), information about tutoring and other resources, supplementary course materials, and access to online exams.

**GREAT RIVER LEARNING:** Buying the workbook gives you access to the **online text** at the website <https://www.GRLcontent.com> . The website includes the e-text, an interactive content overview, review questions, flash cards, and capstone questions, which are great for reviewing for an exam. The e-book contains videos and animations, which you may find helpful.

**IMATHAS homework site**: Homework will be completed on the software that accompanies the text. When you register on the Great River website, you will automatically have an account created on IMathAS.

**ATTENDANCE:** You are expected to attend every class session. If you miss a class due to unforeseen circumstances, it is your responsibility to obtain notes from another class member and complete assignments in a timely manner. Acceptable reasons for missing class include illness and injury (with documentation), disability-related concerns, military service, death in the immediate family, religious observance, academic field trips, and participation in an approved university-sponsored concert or athletic event. Absences for these reasons are considered “excused.” Please notify me in advance if at all possible, if you need to miss class. I do not allow make-up quizzes for unexcused absences.

**FLIPPED PEDAGOGY.** This course has a significant pre-class online lesson component. Expect to spend about 20 minutes working through the online lesson on iMathAS before the next class. These lessons are interactive and will prepare you for group work sessions during class. They count for points and are due by class time the day of class. NO LATE PASSES are available with these online lessons Class time will be spent working on problems, experiments, and engaging activities either in a group or individually. We hope this course organization will help you “learn by doing” and develop a strong understanding of algebraic reasoning. To maximize your learning while working with your group, you need to:

* **Speak with Meaning**

What you say should carry meaning *to others*. Reference quantities – NO pronouns. Explain and justify your approach**.**

* **Exhibit Intellectual Integrity**

Base your conjecture on a logical foundation; don’t pretend to understand when you don’t.

* **Strive to Make Sense**

Persist in making sense of your peer’s thinking.

* **Respect the Learning Process of Others**

Allow others the opportunity to think, reflect and construct. When assisting your peers, pose questions to help them construct meaning rather than show them how to get the answer.

**HOMEWORK:** You will complete regular homework assignments on [IMathAS](https://imathas.rationalreasoning.net), the computer software that accompanies our text. You need to keep a notebook showing all work for these assignments and should schedule about 1½ hours daily to complete the work. You may work on each problem as many times as you like on the software. Online homework assignments are due at midnight the class day *after* they are assigned, but it is in your best interest to have them completed before the next class, so that you can ask questions about them. I will accept *no* late assignments once the exam has been given on the unit. Exceptions to these deadlines are: a) documented illness, b) death in the immediate family, or c) involvement in a university-sponsored event (sports team, choir, etc.). I will assign periodic paper and pencil homework.

**Late Passes on IMathAS.** I’m allowing each student 10 late passes on IMathAS. This means that you may submit an IMathAS assignment late without asking me for special permission. The trick is, though, that you must click on the “Use Late Pass” WITHIN 72 HOURS of the due date of an assignment. Once you have used your 10 late passes, that’s it, unless of course there extenuating circumstances as mentioned in the ATTENDANCE paragraph above.

**PRE-CLASS ASSIGNMENTS:** You will an online pre-class lesson on IMathAS due at most days at class time, on the day the material will be covered. Each of these assignments is worth 10 - 27 points. NO LATE PASSES are permitted on these.

**QUIZZES:** You will have a paper and pencil quiz about once a week, except if an exam is scheduled that week. You need to be present the *entire class period* to earn your points for any in-class quiz. Some of the quizzes may be group quizzes.

**FINAL EXAM:** The final exam is a ***block final,*** which means all Algebra for Calculus BOOST classes take it at the same time. Please make a note NOW of the day and date: ***Thursday, May 9, from 3:15 – 5:30 p.m*. *in a room TBA*.** The final is a cumulative exam and will be taken on the software, iMathAS.

**MAKE-UP EXAMS:** Given only under extraordinary circumstances with written verification of a university-accepted excuse (documented illness, death in immediate family, university-sponsored event). Please notify me IN ADVANCE, if possible, if an exam is to be missed.

**CHEATING AND PLAGIARISM:** University policy 3342-3-01.8 deals with the problem of academic dishonesty, cheating, and plagiarism.  None of these will be tolerated in this class.  The sanctions provided in this policy

will be used to deal with any violations.  If you have any questions, please read the policy [here](http://www.kent.edu/policyreg/administrative-policy-regarding-student-cheating-and-plagiarism) and/or ask.

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| **GRADING:** | ***Grading Scale*** |
| Gateway Exam | **100** |  |  |  |
| 5 Unit Exams @ 100 points apiece | **500** |  |   |  |
| Homework  | **100** |  |  |  |
| Pre-Class Assignments | **50** |  |   |  |
| Quizzes @ 5 or 10 points apiece | **100** |  |  |  |
| Final Exam | **250** |  There will be NO CURVE |
| **Total Points Possible** | **1100** |  |

***In order to continue on to MATH 11012 (Intuitive Calculus) or MATH 11022 (Trigonometry), you need to earn a grade of C or better in this course.***

**ACADEMIC SUPPORT**: Kent State recognizes many students face challenges and we are committed to supporting your academic journey when you need help.  Please check out these resources to help as you build your support system:

* *What is the first step I should take to get academic support for this class?*
	+ Reach out to your instructor!
* *Where can I get help from another student who earned a good grade in this class?*
	+ [Tutoring](https://www.kent.edu/asc/univ-tutoring)
* *Where can I go if I need assistance with how to study and meet my academic goals?*
	+ [Academic Coaching](https://www.kent.edu/coaching)
* *Where should I go when I don’t know where to go?*
	+ [Academic Advising](https://www.kent.edu/university-advising)
	+ [TRIO Student Support Services](https://www.kent.edu/studentsupportservices)

There may be additional resources, just ask!

**DIVERSITY:** Kent State University is committed to the creation and maintenance of equitable and inclusive learning spaces. This course is a learning environment where all will be treated with respect and dignity, and where all individuals will have an equitable opportunity to succeed. The diversity that each student brings to this course is viewed as a strength and a benefit. Dimensions of diversity and their intersections include but are not limited to: race, ethnicity, national origin, primary language, age, gender identity and expression, sexual orientation, religious affiliation, mental and physical abilities, socio-economic status, family/caregiver status, and veteran status.

**ACCOMMODATION FOR RELIGIOUS PRACTICE:** The University welcomes individuals from all different faiths, philosophies, religious traditions, and other systems of belief, and supports their respective practices. In compliance with university policy and the Ohio Revised Code, the University permits students to request class absences for up to three (3) days, per term, in order to participate in organized activities conducted under the auspices of a religious denomination, church, or other religious or spiritual organization. Students will not be penalized as a result of any of these excused absences.

The request for excusal must be made, in writing, during the first fourteen (14) days of the semester and include the date(s) of each proposed absence or request for alternative religious accommodation. The request must clearly state that the proposed absence is to participate in religious activities. The request must also provide the accommodation(s) you desire.

You will be notified by me if your request is approved, or, if it is approved with modification. I will work with you in an effort to arrange a mutually agreeable alternative arrangement. For more information regarding this Policy you may contact the Student Ombuds (ombuds@kent.edu).

**STUDENTS WITH DISABILITIES**: Kent State University is committed to inclusive and accessible educational experiences for all students. University policy 3342-3-01.3 requires that students with disabilities be provided reasonable accommodations to ensure their equal access to course content. Students with disabilities are encouraged to connect with Student Accessibility Services (SAS) as early as possible to establish accommodations. If you anticipate or experience academic barriers based on a disability (including mental health, chronic medical conditions, or injuries), please let me know immediately. Contact information for our SAS offices is as follows: *Location:* University Library, Suite 100; *Email*: sas@kent.edu; *Phone:* 330-672-3391; *Web:* [www.kent.edu/sas](https://www.kent.edu/sas) .

**REGISTRATION REQUIREMENT**: **The last day to add a full-term class or change sections of a class is midnight on Monday, January 22. The** last day to drop any or all courses that meet the full semester before grade of "W" is assigned **is midnight on Monday, January 29.**  University policy requires all students to be officially registered in each class they are attending. Students who are not officially registered for a course by published deadlines should not be attending classes and will not receive credit or a grade for the course. Each student must confirm enrollment by checking his/her class schedule (using Student Tools in FlashFast) prior to the deadline indicated. Registration errors must be corrected prior to the deadline.

**WITHDRAWAL DEADLINE:** The official withdrawal deadline for this course is **Monday, April 1,** at midnight.

**COMMUNICATON:** Please check your university kent.edu email AND your Canvas inbox on a regular basis. You may set your notification preferences on Canvas to have those messages sent to your kent.edu email, but this **does not happen automatically**! You need to visit the notifications link on Canvas and select your preferences there.

**CELL PHONES:** Out of courtesy to your classmates and to me, please turn your cell phones OFF during class and put them away. If you are expecting an emergency call, please set your phone to *vibrate*. If you have your cell/smart phone out during a quiz or exam, you will receive no credit for that quiz or exam.