

# MA110 Spring 2018 - Algebra and Trigonometry for Calculus

## Course and Instructor Demographics

MA 110 is taught by several instructors in several sections. For office hours, meeting times, and contact information, please see the tables below.

### Instructors

It is very important to keep up with your class and to inform your instructor as early as possible of any problems or concerns. Many instructors have hundreds of students, and so there may be delays or special requirements needed to handle what may appear to be simple problems. On the other hand our instructors are experienced and ready to help you solve problems that arise during the semester. In all cases, the more time the instructor has to consider your case, the more likely you are to have a good result.

Instructors hold drop-in office hours at the times and places listed below. You can stop by to ask questions about the course material or structure. Most instructors also are available in the [Mathskeller](#) where you can ask them (or any other instructor present) for help in the course.

Instructor	Email	Office Location	Office Phone	Office Hours	<a href="#">Mathskeller</a> hours
Sara Ellis-Hebble	<a href="mailto:sara.ellis@uky.edu">sara.ellis@uky.edu</a>	<a href="#">POT 951</a>	(859) 257-6821	MF 3-3:50 pm	W 3-3:50 pm
Kathy Effinger	<a href="mailto:kathy.effinger9@uky.edu">kathy.effinger9@uky.edu</a>	<a href="#">POT 957</a>	(859) 257-NA	TBA	TBA
Charlene Norman	<a href="mailto:cnorman12@live.com">cnorman12@live.com</a>	<a href="#">POT 957</a>	(859) 257-NA	TBA	TBA
Noah Speeter	<a href="mailto:noah.speeter@uky.edu">noah.speeter@uky.edu</a>	<a href="#">POT 906</a>	(859) 257-7217	TBA	TBA
James Veas	<a href="mailto:WJamesVeas@uky.edu">WJamesVeas@uky.edu</a>	<a href="#">POT 802</a>	(859) 257-6816	M 1-2 pm	T 12-1 pm, W 3-4 pm

### Sections

Active, engaged class participation is required in all sections. Make sure you know when and where your class meets and make sure to bring appropriate materials to class (a way to view the textbook, a place to take notes, any calculator you want to practice using). Your active, engaged class participation is a major component of your final grade.

The rooms for your first three exams are also listed, as well as the rooms for your final exam:

Section	Instructor	Room	Time	Exam room	Final room
001-007	Sara Ellis-Hebble	<a href="#">CP 139</a>	MWF 12:00 pm–12:50 pm		
001	James Veas	<a href="#">CB 347</a>	TR 8:00 am–8:50 am	<a href="#">CB 106</a>	<a href="#">JSB 121</a>
002	James Veas	<a href="#">CB 347</a>	TR 9:00 am–9:50 am	<a href="#">CB 106</a>	<a href="#">JSB 121</a>
003	Noah Speeter	<a href="#">CB 347</a>	TR 10:00 am–10:50 am	<a href="#">CB 106</a>	<a href="#">JSB 121</a>
004	Noah Speeter	<a href="#">CB 347</a>	TR 11:00 am–11:50 am	<a href="#">CB 106</a>	<a href="#">JSB 121</a>
005	Charlene Norman	<a href="#">CB 347</a>	TR 12:00 pm–12:50 pm	<a href="#">CB 102</a>	<a href="#">JSB 321</a>
006	Kathy Effinger	<a href="#">CB 303</a>	TR 1:00 pm–1:50 pm	<a href="#">CB 102</a>	<a href="#">JSB 321</a>
007	Charlene Norman	<a href="#">POT</a> <a href="#">OB3</a>	TR 10:00 am–10:50 am	<a href="#">CB 102</a>	<a href="#">JSB 321</a>

## Course Description

The [2017-18 Bulletin](#) describes the course as:

*This is a course specifically designed for students intending to enroll in a calculus sequence. Topics will include trigonometric functions, exponentials and logarithms, graphs, polar coordinates and conic sections. Students may not receive credit for MA 110 and either of MA 109 and MA 112. This course is not available for credit to students who have received credit in any higher numbered mathematics course except for MA 111, MA 123, MA 162, MA 201 or MA 202. Credit is not available by special examination. Math placement exam recommended. Lecture, three hours, recitation two hours per week. Prereq: Two years of high school algebra and a Math ACT score of 23 or above, or two years of high school algebra and a Math SAT score of 540 or above, or appropriate score on math placement exam, or a C in MA 109, or consent of department.*

## Student learning outcomes and course goals

This course is designed to prepare students for the calculus sequence. Students who successfully complete this course will be able to:

- Analyze functions by ...
  - Computing the value of a function.
  - Determining the domain and range of a function.
  - Computing the difference quotient of a function.
  - Sketching the graph of functions using transformations.
  - Evaluating the sum, difference, product, quotient, and composition of functions.
  - Construct the inverse of a function.
- Evaluate polynomial and rational functions by ...
  - Computing the quotient and remainder of polynomial functions.
  - Computing the factors and roots of polynomial functions.
  - Sketching the graph of polynomial functions.
  - Sketching the graph of rational functions.
- Analyze exponential and logarithmic functions by ...
  - Sketching the graph of exponential and logarithmic functions.
  - Converting equations between exponential and logarithmic form.
  - Evaluating exponential and logarithmic expressions.
  - Condensing and expanding logarithmic expressions.
  - Solving exponential and logarithmic equations.
- Apply trigonometric principles by ...
  - Sketching angles in standard position.
  - Converting between radian and degree angle measure.
  - Evaluating the exact value of the six trigonometric functions.
  - Sketching the graph of the six trigonometric functions using transformations.
  - Applying fundamental identities, such as the Pythagorean, double angle, addition and subtraction identities to prove additional identities.
  - Simplifying inverse trigonometric expressions into algebraic expressions.
  - Solving trigonometric equations.
- Evaluate analytic geometry by ...
  - Converting parametric equations into rectangular form.
  - Sketching the graph of parametric equations.
  - Plotting polar coordinates.
  - Converting between polar and rectangular coordinates and equations.
  - Sketching polar equations.

## Grading

Your final grade is a letter grade A, B, C, D, or E. It is computed from several different components (as indicated in the table and described in detail below). Please keep in mind that the Canvas gradebook simply collects scores and is not capable of computing your overall final course grade according to this syllabus. Thus, Canvas may NOT reflect an accurate final course grade for you.

Each of the **four exams** are scheduled at night, as indicated in the [course schedule](#), and has a very strict absence and cheating policy (WARNING: be careful not to get a 0 on an exam).

The **quiz score** will be based on quizzes given during recitations, as indicated in the [course schedule](#). The quizzes are an important time to practice writing out explanations for your answers in preparation for exams. Students will be allowed to drop two quiz scores. However, if a student misses a quiz due to an *unexcused absence*, they will **not** be able to make up the quiz and will receive a 0 for that quiz. Any student that misses more than two quizzes will be required to meet with his/her instructor.

The **online homework** portion will be based on the assignments submitted through WebAssign, a web-based homework system which requires purchasing an access code, as indicated below in the [Required course materials](#).

The **lecture instructor score** will measure active, engaged, in-class participation. It may be based on pre-class online quizzes, in-class activities or quizzes, or post-class online quizzes. Students will be allowed up to five absences in lecture without documentation. If a student has six or more excused absences, the student must present documentation for all absences to their lecture instructor.

Once the semester is over, including the final exam, your total points can be compared against the grading cutoffs table to find the matching letter grade. There will be **no extra credit** offered. Any curve will be decided after the final exam is graded, but is unlikely to be significant barring unforeseen circumstances. A typical grade distribution is 17% of students assigned an A, 27% B, 22% C, 11% D, 12% E, and an additional 12% withdrawing. Grade distributions may change from semester to semester, but this provides a rough indicator of the difficulty students as a whole have with the course. Please note that there is a [limited number of times a student may repeat this course](#). Thus, students are encouraged to make every effort to complete the course, rather than withdraw and try again in a later semester.

## Grading components

Points	%	Assessment
400	73%	3 Midterm & 1 Final Exam @ 100 points each
50	9%	Quizzes
50	9%	Online Homework
50	9%	Lecture Instructor Score
550	100%	Total

Grading cutoffs		
Minimum points	Minimum Percent	Grade
495	90.0%	A
440	80.0%	B
385	70.0%	C
330	60.0%	D
0	0.0%	E

## Required course materials

### Textbook

The textbook *Contemporary Precalculus: A Graphing Approach*, 5e, by Thomas W. Hungerford and Douglas J. Shaw is required. An access code for WebAssign (the online homework system used in this class) is additionally required. Upon creating their WebAssign account, all students will receive a two-week free trial to use WebAssign, which includes an online version of the textbook. Students will create their WebAssign account using the link provided in the WebAssign Module in [Canvas](#). Students should make plans to purchase a WebAssign access code before Wednesday, September 6th, when the free trial expires. This can be done in multiple different ways. Only one of the following options is required!

- A custom paperback University of Kentucky edition with the title *Pre-calculus* is available at the local area bookstores for \$100 with ISBN-13: 978-1-337-03405-0. This package is bundled with a WebAssign access code and includes an ebook. The text in this edition is identical to the book titled *Contemporary Precalculus: A Graphing Approach*, 5e by Hungerford and Shaw.

- You may purchase a WebAssign access code at the University of Kentucky Bookstore, which includes an ebook (but not printed) version of the textbook, for a price of \$85.
- You may purchase a WebAssign access code online that does NOT include the electronic textbook for \$47. This option is suggested only for those students who have obtained a hardcopy of the textbook through some other means.

## **iClicker polling**

Your [lecture instructor score](#) is based on active, in-class participation and attendance. This score will depend, at least partially, on your responses submitted through the iClicker polling system. You will need to use iClicker Polling in all lecture sections. Most students will use a smartphone, computer, or tablet to participate in iClicker Polling. If you are not able to bring such a device to class, please speak with your lecturer about obtaining a substitute. You will need to register your iClicker Polling Account through [Canvas](#).

### **• Creating Your iClicker Polling Account**

See the “Welcome to MA 110!” announcement in [Canvas](#), OR go to <https://www.iclicker.com/students> to download the iClicker Polling app for iPhone/iPad in order to sign up for a iClicker Polling account. Please use your university email address and the last 8 digits of your Student ID (drop the initial 9, for most students, the result will start with a 1). If you need to change your email address, password, or student ID, edit your account profile. Do not create and use more than one iClicker Polling account as you will only receive credit from a single account. When you create the account, you will automatically receive a free 14-day trial subscription. If you are uncertain as to whether you will continue in this class, you may use the trial subscription until your schedule is final. You will need to purchase a subscription once your schedule is finalized. You may purchase a subscription through your in-app purchase method, or buy an access code online or from the bookstore. Note that if you are using iClicker Polling in several classes this semester you should only have **one account** and purchase **one subscription**.

### **• Add This Course to Your iClicker Polling Account**

Search with the following information to find this course and add it to your iClicker Polling account:

- Institution: University of Kentucky

- Course: MA 110, (making certain to choose the section appropriate to your individual lecture time)

If you change lecture time, you will need to add the iClicker Polling Course for your new lecture time to your iClicker Polling Account. Your scores will not be transferred to the new course.

## Worksheets

Most of our time in recitation will be spent on the following worksheets.

Diagnostic worksheets:

Date	Content	Worksheets	Keys
week 1	Diagnostic	<a href="#">W0A: Diagnostic A</a>	<a href="#">W0A: key</a>
week 2	Review	<a href="#">W0B: Diagnostic B</a>	<a href="#">W0B: key</a>

## Exam 1 worksheets

Date	Content	Worksheets	Keys
week 2	Function Notation	<a href="#">W01: §3.2 Notation</a>	<a href="#">W01: key</a>
week 3	Graphs of Functions	<a href="#">W02: §3.3 Graphs</a>	<a href="#">W02: key</a>
week 3	Graph Transformations	<a href="#">W03: §3.4 Transforms</a>	<a href="#">W03: key</a>
week 4	Operations on Functions	<a href="#">W04: §3.5 Operations</a>	<a href="#">W04: key</a>
week 4	Inverse Functions	<a href="#">W05: §3.7 Inverses</a>	<a href="#">W05: key</a>

## Exam 2 worksheets

Date	Content	Worksheets	Keys
week 5	Quadratic Functions	<a href="#">W06: §4.1 Quadratics</a>	<a href="#">W06: key</a>
week 6	Polynomial Functions and Graphs	<a href="#">W07: §4.2 and §4.4</a>	<a href="#">W07: key</a>
week 6	Rational Functions	<a href="#">W08: §4.5 Rational Functns</a>	<a href="#">W08: key</a>
week 7	Exponential Functions	<a href="#">W09: §5.2 Exp. Functns</a>	<a href="#">W09: key</a>
week 7	Logarithmic Functions	<a href="#">W10: §5.3 Logarithms</a>	<a href="#">W10: key</a>

week 8	Logarithmic Properties	<a href="#">W11: §5.4 Log Props</a>	<a href="#">W11: key</a>
week 8	Exponential & Log Equations	<a href="#">W12: §5.5 E &amp; L Equatns</a>	<a href="#">W12: key</a>

### Exam 3 worksheets

Date	Content	Worksheets	Keys
week 9	Angles & Measure	<a href="#">W13: §6.1 Angles &amp; Measure</a>	<a href="#">W13: key</a>
week 11	Sine, Cosine, Tangent	<a href="#">W14: §6.2 Sin, Cos, Tan</a>	<a href="#">W14: key</a>
week 11	Basic Trigonometric Graphs	<a href="#">W15: §6.4 Basic Trig Graphs</a>	<a href="#">W15: key</a>
week 12	Other Trigonometric Functions	<a href="#">W16: §6.6 Other Trig Functns</a>	<a href="#">W16: key</a>
week 12	Basic Trigonometric Identities	<a href="#">W16: §7.1 Basic Trig IDs</a>	<a href="#">W16: key</a>
week 13	Addition & Subtraction Identities	<a href="#">W17: §7.2 Add/Subtract IDs</a>	<a href="#">W17: key</a>
week 13	Double & Half Angle Identities	<a href="#">W17: §7.3 Double Angle IDs</a>	<a href="#">W17: key</a>

Additional Final Exam worksheets ... **REMEMBER** the final exam is *cumulative* !!!

Date	Content	Worksheets	Keys
week 14	Inverse Trig Functions	<a href="#">W18: §7.4 Inv Trig Functns</a>	<a href="#">W18: key</a>
week 15	Trigonometric Equations	<a href="#">W19: §7.5 Trig Equations</a>	<a href="#">W19: key</a>
week 15	Triangle Trig	<a href="#">W20: §8.3 Law of Cosines</a>	<a href="#">W20: key</a>
week 16	More Triangle Trig	<a href="#">W21: §8.4 Law of Sines</a>	<a href="#">W21: key</a>

### Calculator

Please see the [calculator guidelines](#) for more details. ONLY non-graphing, basic 4-function calculators with simple numerical memory are permitted for student use on exams and quizzes. Calculators may perform only the following mathematical operations: +, -, ×, ÷, %,  $\sqrt{\quad}$



The typically approved calculators are Texas Instruments TI-108 or 1706SV, Sharp EL-R277BBK, EL-S10B, EL-240SAB, EL-243SB, or EL-233SB, and Casio HS-4G, HS-8VA, SL-450S, SL-100L, or SL-300SV. Calculators that are not approved include scientific and graphing calculators such as Texas Instruments TI-30 through TI-89, Sharp EL-501\*\*\*\* and higher, EL-W516\*\*\*\* and higher, and any Casio with “FX” prefix.

During exams and quizzes, any non-approved calculators will be confiscated. If you have any question about your calculator, please ask your instructor at least one week prior to the exam.

## Course Policies

There are a number of important policies that can have a dramatic effect on your understanding and your final grade in this course. These policies are intended to be uniform and simple, but if you have not read over them, they may have unexpected consequences.

### Important dates

See the [Academic Calendar](#), the [Common Hour Exam schedule](#), and the [Final Exam schedule](#) for Spring 2018.

Wednesday, January 10	First Day of Classes
Monday, January 15	Martin Luther King, Jr. Day (no classes)
Wednesday, January 17	Last Day to Add
Wednesday, January 31	Last Day to Drop
Tuesday, February 6	Exam 1 (7:30pm – 9:30pm)
Tuesday, March 6	Exam 2 (7:30pm – 9:30pm)
Friday, March 9	Midterm grades
Monday, March 12 to Saturday, March 17	Spring Break (no classes)
Friday, March 30	Last Day to Withdraw
Tuesday, April 10	Exam 3 (7:30pm – 9:30pm)
Friday, April 27	Last Day of Classes
Wednesday, May 2	Final Exam (6:00pm - 8:00pm)

### Attendance

Active, engaged, in-class participation is mandatory and forms a significant portion of your final grade. You should be ready to work when class begins (for example: seated, notes and pencil ready, attention to the front, quiet at 8:00 am if the class starts at 8:00 am). You should not pack up or leave until class is over (for example: you should still be working at 8:49am if the class ends at 8:50 am). If you have special circumstances, please contact your instructor before class begins so that they can excuse late arrivals or early departures. Unexcused late arrivals or early departures may result in significant reduction in participation grade for each day on which they occur.

An absence can only be excused if the instructor is notified in a timely manner. The choice to excuse the absence is with the instructor, though excuses will be granted (given timely notification) according to [University Senate Rule 5.2.4.2](#): namely (a) serious illness, (b) illness or death of a family member, (c) University related trips, (d) major religious holidays, (e) other reasons deemed reasonable by the instructor. In the case of (c) and (d) notification must be provided one week in advance. In all cases documentation may be requested to ensure the absence does meet policy. For (a) a University Health Services Tier 2 or Tier 3 excuse is required, or a similar note from a health care provider who will confirm that you are a patient and were seen on the indicated day. Documentation that cannot be verified may result in the absence not being excused.

Absences can affect each component of the grade, and the policies for how absences affect each grade differ:

- **Exams:**

Absences for exams are quite serious. An *unexcused* exam absence results in **0** for the exam grade, which lowers your final grade by at least a letter grade. Students who must miss an exam will need to arrange for an alternate exam with their lecture instructor and the procedure for doing this may vary by section. The most common reasons for requesting an alternate time is a conflict with a class or other university activity that is scheduled at the same time. These type of requests must be submitted **two weeks in advance** of the exam. If you miss an exam due to an unforeseeable illness or family emergency, please notify your lecture instructor *within 24 hours* of the missed exam.

- **Quizzes:**

An *unexcused* absence on the day of a quiz will result in **0** for that quiz grade. Students may not make up a quiz that they miss due to an unexcused absence; however, the lowest two quiz grades will be dropped for all students. Students who wish to request a make-up quiz due to an excused absence must submit

documentation within one week of the absence to their recitation instructor. Students who miss more than 2 quizzes will be required to meet with their instructor.

- **Online homework:**

All WebAssign homework is available online many weeks in advance, so that students having absences of type (c) and (d) should be able to complete their assignments even while travelling. Students who are not able to complete homework due to an unforeseeable illness or family emergency should contact their lecture instructor regarding the missed homework.

- **Lecture instructor score:**

Students who miss lecture are allowed five absences without an excuse. You may send email noting the absence, but this is not necessary. At the sixth **excused** absence, students may request additional excused absences by submitting documentation to the lecture instructor for all of the missed classes. This documentation must be submitted within one week of the sixth excused absence. In particular, keep documentation for excused absences, especially regarding chronic conditions which are likely to cause multiple absences.

## **Submission of assignments**

Homework must be submitted online at WebAssign, in the appropriate course as accessed from [Canvas](#). WebAssign is a for-profit company that charges a fee to use their online homework. The student is responsible for paying this fee. See the [section on course materials](#) for information about purchasing an access code for WebAssign.

The homework due dates are listed in the [course schedule](#). Homework assignments are always due at 11:59 pm. Please note that if you are having trouble with the website, you should contact WebAssign for [help](#). There will be many homework sets throughout the semester. You can see the homework assignment due dates on the class schedule. Note that there are assignments that are due during Dead Week.

Exams must be taken at the specified times and locations, or an alternate exam must be approved by the lecture instructor. You are expected to take the exam without notes, textbooks, online access, or communication with your peers. You may use a non-graphing [calculator](#) approved for use in this course.

## **Accommodations due to disability**

If you have a documented disability requiring academic accommodations, please contact your lecture instructor as soon as possible by email or during regularly scheduled office hours. To receive accommodations in this course, you must first provide your instructor(s) a Letter of Accommodation from the Disability Resource Center (DRC). The DRC coordinates campus disability services available to students with disabilities. The DRC is located on the corner of Rose Street and Huguelet Drive in the [Multidisciplinary Science Building](#), Suite 407. You can reach them via phone at (859) 257-2754 and via email at [drc@uky.edu](mailto:drc@uky.edu). Their web address is <http://www.uky.edu/StudentAffairs/DisabilityResourceCenter/>.

Any student needing accommodations for exams due to disability must notify their lecture instructor a *minimum of 7 days in advance of the exam*.

### **Academic Honesty**

All assignments, exams, quizzes, projects, and exercises completed by students for this class should be the product of the personal efforts of the individual(s) whose name(s) appear on the corresponding assignment. Cheating or plagiarism is a serious offense and will not be tolerated. Any potential cheating case will be thoroughly investigated, and could lead to failure in the course or even to expulsion from the university. See Student Rights and Responsibilities in the [University Senate Rules \(Sections 6.3.1 and 6.3.2\)](#) for information on cheating, plagiarism, and penalties. A summary of recent changes to rules on cheating can be found at the [academic ombud website](#).

Answers submitted through iClicker polling must be submitted by the person who receives credit for these answers and must be submitted while in our classroom. Submitting answers while on behalf of another student or while not in class will be treated as academic dishonesty.

### **Classroom Behavior, Decorum, and Civility**

Students are expected to be actively participating during class. Students are also expected not to distract others. If you arrive late, leave early, are distracted by your phone, or are otherwise not actively engaged with the class you may not receive credit for participating that day. If you are disrupting class, you may be asked to leave.

Algebra and Trigonometry for Calculus is traditionally a very difficult class, and many of your classmates will be having a hard time adjusting both to the university and to the demands of the class. You are expected to treat your classmates with respect. It is reasonable to disagree, but you should express your disagreement respectfully. Harassment and incivility will not be tolerated.

## **Non-Discrimination Statement and Title IX Information**

The University of Kentucky faculty are committed to supporting students and upholding the University's non-discrimination policy.

Discrimination is prohibited at UK. If you experience an incident of discrimination we encourage you to report it to Institutional Equity & Equal Opportunity (IEEO) Office, 13 Main Building, (859) 257-8927.

- **Acts of Sex- and Gender-Based Discrimination or Interpersonal Violence:** If you experience an incident of sex- or gender-based discrimination or interpersonal violence, we encourage you to report it. While you may talk to a faculty member or TA/RA/GA, understand that as a "Responsible Employee" of the University these individuals **MUST** report any acts of violence (including verbal bullying and sexual harassment) to the University's Title IX Coordinator in the IEEO Office. If you would like to speak with someone who may be able to afford you confidentiality, the [Violence Intervention and Prevention \(VIP\)](#) program and [Bias Incident Support Services](#) (Frazee Hall – Lower Level), [the Counseling Center](#) (106 Frazee Hall), and [University Health Services](#) are confidential resources on campus.

## **Dead week**

Homework score and instructor score continue as usual. Homework is due and the typical measures of in-class participation will be present. No papers or exams will be given during dead week.

## **Limited course repeats**

University Senate rule 4.3.3 allows the department chair to prevent a student from registering in a course for a third time, unless a student has withdrawn for urgent, non-academic reasons. Beginning in Fall 2016, the Department of Mathematics will enforce this rule for students attempting a fourth registration in MA 109, 110, 113 and 137.

## **Prerequisite for MA 113 and MA 137**

The primary reason for taking MA 110 is to prepare for one of our Calculus courses, MA 113 or MA 137. Please note that the prerequisite for these courses is a C in MA 110. Earning a D provides credit, but does not indicate sufficient preparation to continue to Calculus I or Calculus I with life science applications.

## Course Schedule

Due dates for web homework, quizzes, exam dates, and other important dates are listed in the [course schedule](#).

## Study help

In addition to the [textbook](#) and your [instructor's office hours](#), you may find the following useful for studying:

### Old exams

An archive of old exams from MA 110 is available at the address <http://www.math.uky.edu/~ma110/exams/>. The topics covered on each exam in MA 110 may change slightly from semester to semester. Thus, the exams which are linked to this page may cover different topics than the exams to be given this semester.

### The Mathskeller

The Mathskeller is located in CB 063 in the basement of the classroom building. Many instructors from the Department of Mathematics will hold office hours in the Mathskeller. In addition, limited drop-in tutoring is available. The Mathskeller is open from 9am to 5pm Monday through Friday (except academic holidays) during the semester. Additional information is available at <http://www.math.uky.edu/~mathskeller/>.

### Student Support Services

[Student Support Services](#) (SSS) is offering a voluntary (and completely anonymous) Supplemental Instruction component to complement this course this semester. The Supplemental Instruction leader will attend class regularly with the students and will offer regular, weekly sessions outside of class in order to review and reinforce the concepts presented in lecture. This semester the review sessions will be held in (location TBA) on (days TBA) from (times TBA). For more information, contact SSS directly or call 257-9797.

### The Study

The [Peer Tutoring Program](#) offers FREE drop-in tutoring for many University of Kentucky (UK) core courses. Offering proactive assistance, the goal of the Peer Tutoring Program is to enhance students' academic experience as early and as often as possible. The Peer Tutoring Program provides a welcoming and friendly atmosphere

for students to drop in, as they wish, to seek help on homework or exam prep, or simply to study within a group environment. Peer Tutors in [The Study Central](#) and [The Study North](#) are nationally certified, well-trained undergraduate students who have successfully completed the course for which they tutor at UK. This makes them a great resource for questions about a professor or course format in addition to questions pertaining to the subject.

Peer tutoring is offered in two locations—The Study Central, on the bottom floor of [Donovan Hall](#) (entrance is catty corner from K-Lair) on central campus, and The Study North, on the first floor of [Jewel Hall](#) (residence hall across from the Student Center) on north campus.

In addition to the peer tutoring program, [Transformative Learning](#) (formerly known as Academic Enhancement) also offers a variety of additional services to undergraduate students, including free individual academic consultations. Schedule a free appointment with a learning specialist for strategies on how to become a more effective student. For more information on all the services available in The Study and for a complete tutoring schedule, visit [the Study](#) or call 257-1356.