

PRECALCULUS, Math 1715 Fall 2014	
Instructor:	Gerri Petty
Office:	512 MSCS
Office hours in MSCS 512:	11:30-1:20 Monday and Friday, 12:30-1:20 Wednesday; other times are available by appointment. Please arrange appointment times by e-mail.
Office hours in MLSC:	11:30-12:20 Wednesday
E-mail:	gerpetty@math.okstate.edu Please put 1715 STUDENT in the subject line of your e-mail. In addition, in the body of your e-mail, please identify the day and time of your discussion section. For instance, 1715 STUDENT, TR 2:00.
Office phone:	405-744-5688 for messages, 405-612-1122 cell phone – text or voice

Course Description: This is an integrated College Algebra and Trigonometry course. The prerequisite test required is ALEKSGOAL, with a minimum score of 40. This course includes the study of quadratic equations, functions and graphs, systems of equations, exponential and logarithmic functions, sequences and series, trigonometric functions and graphs, solution of triangles and applications to physical sciences, polar coordinates and vectors.

Textbook/Required Material

- **Algebra and Trigonometry w/Access**, Third Edition, by Stewart, Redline, and Watson.
OR WEBASSIGN Access Code
Note: The textbook is looseleaf and cannot be sold back to the bookstore. You may (instead) buy an e-book with WebAssign access code either through the student bookstore, directly from WebAssign when you register for it, or from the publisher Cengage.
- **Lecture notes:** These are available in the online classroom (D2L). Go to: <https://oc.okstate.edu/> and log in using your O-Key username and password. These notes will be located under the “Contents” tab.
- A **graphing calculator** is highly recommended for this course, but a (non-graphing) scientific calculator may be used. It must be able to calculate trigonometric functions (sine, cosine, tangent) in both degrees and radians, as well as inverse trigonometric functions. *Cell phone calculators, laptops, handheld computers, and calculators with built-in computer algebra systems (TI-89, TI-Nspire, etc.) are not allowed. Only one calculator may be used on exams or other assignments.* Please check with your instructor to determine whether your calculator is allowed. **Note:** The OSU Mathematics Department has a limited number of graphing calculators available for student check-out.

Tutoring: There is free tutoring available in the Math Learning Success Center (MLSC), located on the fifth floor of the OSU Library.

Class Format: The lecture section of this class meets on Monday, Wednesday, and Friday. This is the time when new material is introduced. Smaller discussion sections meet on Tuesday and Thursday with a discussion instructor. During the discussion sections, additional examples will be shown, homework questions answered, and group activities or quizzes may be given. When *written* homework is due, it will be turned in during the discussion section.

Type	Days/Times	Section	Instructor	Classroom
Lecture	MWF 1:30-2:20		Gerri Petty	AGH 101
Discussion	TR 9:30-10:20	001	Yuan Kong	HSCI 331
Discussion	TR 10:30-11:20	002	Yuan Kong	HSCI 305
Discussion	TR 11:30-12:20	003	Jianou Zhang	HSCI 305
Discussion	TR 12:30-1:20	004	Jianou Zhang	AGH 009
Discussion	TR 1:30-2:20	005	Aaron Yeager	HSCI 004
Discussion	TR 2:30-3:20	006	Aaron Yeager	AGH 009

Online Homework: Most of your homework will be completed online at the WEBASSIGN web site. You should sign up for WebAssign right away, then you have a 14-day grace period to enter the access code to continue doing homework. Follow the directions to self-enroll on the handout. You will need to enter a ‘class key’ from the handout. You will also need the ‘student access code’ that comes with your textbook. To log on, you will enter the following:

- Username: enter your username
- Institution: okstate
- Password: enter the password you made up (write this down so you won’t forget)

You can submit each exercise up to 5 times. At the end of the semester, the total of all WebAssign homework points will be *scaled* to **100 points** (your percentage \times 100). WebAssign homework will not be available after the due date for each assignment. If you have a question from the online homework, please write it down and bring it to class. Please **keep a copy of your written work** for every homework assignment.

Group Work and Quiz Grade: Group work and unannounced quizzes will be given during discussion class. These are unannounced and **you must be present for the whole class period** to participate. The total for all these will be *scaled* to **100 points** (your percentage \times 100). There will be *no make-up* on group work assignments or quizzes. You will be allowed to drop your *two* lowest scores from this grade category.

Written Homework: Separate *written* homework will also be due and turned in during discussion class. At the end of the semester, the total of all written homework points will be *scaled* to **50 points** (your percentage \times 50). *Written homework will only be accepted after the due date if the reason for your absence meets the criteria for a make-up exam (see below, documentation required). Late homework will not be accepted after the graded homework has been returned to the rest of the class.* The lowest *two* grades from written homework will be dropped at the end of the semester.

Attendance: There will be 50 points available for class attendance. This includes both lecture attendance and discussion attendance. You get **three “free”** absences. For every absence after the first three, 3 points will be deducted from the 50 point total. There are **no “excused” absences**. You must be present for the **entire class period, awake, attentive, and not using an electronic device**, to be counted as present.

Exams: There will be four 100 point exams and a 200 point comprehensive final exam. The dates for the exams are as follows:

Exam 1: Wednesday, September 10	Exam 2: Wednesday, October 1
Exam 3: Wednesday, October 22	Exam 4: Wednesday, November 12
Final Exam: Wednesday, December 10, 2:00 – 3:50	

Make-Up Exams: Make-up exams will be given only in extreme circumstances, if documentation for the absence can be provided and is verifiable. Valid reasons (documentation required) for make-up exams include:

- University activities (e.g. field trips, research presentations, athletic teams, etc.)
- Military obligation, jury duty or other mandatory court appearance
- Serious illness or injury in student or immediate family (parent, sibling, spouse, son, daughter)

If you believe a make-up exam may be applicable, please notify the instructor either in person or by e-mail at gerpetty@math.okstate.edu prior to the missed exam (if possible), informing the instructor of the reason for missing the exam. Notification *after* the exam will only be accepted in an emergency situation. If you know several days in advance that you will miss an exam (jury duty, athletics, etc.), it may be possible to take an *early* exam. You must provide **appropriate documentation** for the absence.

Course Evaluation: Course grades will be determined according to the following distribution.

Online Homework (scaled)	100 points
Group Work/Quiz Grade (scaled)	100 points
Written Homework (scaled)	50 points
Attendance	50 points
Exams	<u>600 points</u>
TOTAL	900 points

Letter grades will be assigned according to the following scale.

A: 90% or higher	B: 80-89.5%	C: 70-79.5%	D: 60-69.5%	F: 59% or lower
810-900 pts.	720-809 pts.	630-719 pts.	540-629 pts.	0-539 pts.

Attendance, Courtesy, and Electronics Usage: Regular class attendance is expected. Common courtesy is expected. Here are a few things to remember:

- Be **on time** and be **attentive**; **remain in the room** the entire time (unless you are ill).
- Show courtesy to those around you by **not talking** to classmates while the instructor is talking.
- **Only one calculator** may be used on quizzes, exams, or other assignments. **No other electronic devices** (cell phones, laptops, tablets) are allowed. Use of more than one calculator, or use of another electronic device will be considered an act of academic dishonesty/misconduct.
- Please **do not use a cell phone or other electronic device during class time.**

Incomplete Grade: The grade of “I” is given to students who satisfactorily completed the majority of the course work and whose work averages “D” or better, but who have been unavoidably prevented from completing the remaining work of the course. The conditions, including appropriate time limits, for the removal of the “I” are indicated on the official class roll by the instructor. A condition that the student must repeat the course in order to remove the “I” is not permitted. The maximum time allowed for a student to remove an “I” is one calendar year.

Academic Dishonesty/Misconduct: Oklahoma State University is committed to the maintenance of the highest standards of integrity and ethical conduct of its members. This level of ethical behavior and integrity will be maintained in this course. Participating in a behavior that violates academic integrity (e.g., unauthorized collaboration, plagiarism, multiple submissions, cheating on examinations, fabricating information, helping another person cheat, unauthorized advance access to examinations, altering or destroying the work of others, and fraudulently altering academic records) will result in your being sanctioned. Violations may subject you to disciplinary action including the following: receiving a failing grade on an assignment, examination or course, receiving a notation of a violation of academic integrity on your transcript, and being suspended from the University. You have the right to appeal the charge. Contact the Office of Academic Affairs, 101 Whitehurst, 405-744-5627. Go to academicintegrity.okstate.edu for a short video on OSU’s academic integrity policy and additional information.

Office of Student Disability Services: (015 University Health Services) - According to the Americans with Disabilities Act, each student with a disability is responsible for notifying the University of his/her disability and requesting accommodations. If you think you have a qualified disability and need special accommodations, you should notify the instructor and request verification of eligibility for accommodations from the Office of Student Disability Services. Please advise the instructor of your disability as soon as possible, and contact Student Disability Services, to ensure timely implementation of appropriate accommodations. Faculty have an obligation to respond when they receive official notice of a disability but are under no obligation to provide retroactive accommodations. To receive services, you must submit appropriate documentation and complete an intake process during which the existence of a qualified disability is verified and reasonable accommodations are identified. Call 405-744-7116 or go to www.okstate.edu/ucs/stdis/.

Syllabus Attachment: You are individually responsible for meeting university deadlines and for following university procedures. The general university syllabus attachment, containing much information of this nature, can be found on the Academic Affairs’ web site (<http://academicaffairs.okstate.edu> and choose Faculty and Staff Resources, then the Syllabus attachment for Fall 2014) or click on this link [Syllabus attachment](#).

Final Note: Any changes in this syllabus will be communicated to you in class by the instructor.

Tentative Class Schedule*, MATH 1715, Fall 2014

Wk	Monday	Wednesday	Friday
1	Aug. 18	Aug. 20	Aug. 22
	Syllabus 1.1 Basic Equations	1.1 Basic Equations 1.2 Modeling	1.3 Quadratics 1.4 Complex Numbers
2	Aug. 25	Aug. 27	Aug. 29
	1.5 Other Equations 1.6 Inequalities	1.7 Absolute Value 2.1 Coordinate Plane	2.2 Graphs 2.4 Lines
3	Sep. 1	Sep. 3	Sep. 5
	University holiday	3.1 Functions	3.2 Graphs of Functions END EX1 MATERIAL
4	Sep. 8	Sep. 10	Sep. 12
	3.3 Information...Graph 3.4 Ave. Rate of Change	Exam 1	3.5 Transformations
5	Sep. 15	Sep. 17	Sep. 19
	3.6 Combining Functions 3.7 Inverses	4.1 Quadratic Functions	4.2 Polynomials 4.3 Division
6	Sep. 22	Sep. 24	Sep. 26
	4.4 Zeros 4.5 Complex Zeros	4.6 Rational Functions	5.1 Exponentials 5.2 Natural Exponentials END EX2 MATERIAL
7	Sep. 29	Oct. 1	Oct. 3
	5.3 Logarithms	Exam 2	5.4 Log Laws
8	Oct. 6	Oct. 8	Oct. 10
	5.5 Exp/Log Equations	5.6 Modeling Exp/Logs	6.1 Angles
9	Oct. 13	Oct. 15	Oct. 17
	6.2 Right Triangle Trig	6.3 Trig...Angles	6.4 Inverses I END EX3 MATERIAL
10	Oct. 20	Oct. 22	Oct. 24
	6.5 Law of Sines	Exam 3	Fall Break
11	Oct. 27	Oct. 29	Oct. 31
	6.6 Law of Cosines	7.1 Unit Circle 7.2 Trig...Real Numbers	7.3 Trig Graphs
12	Nov. 3	Nov. 5	Nov. 7
	7.3 Trig Graphs	7.4 More Trig Graphs	7.5 Inverses II END EX4 MATERIAL
13	Nov. 10	Nov. 12	Nov. 14
	8.1 Identities	Exam 4	8.2 Add/Sub Formulas 8.3 Double-angle
14	Nov. 17	Nov. 19	Nov. 21
	8.4 Trig Equations I	8.5 Trig Equations II	11.1 Systems...Equations
15	Nov. 24	Nov. 26	Nov. 28
	11.2 Systems, 3 variables	University holiday	University holiday
16	Dec. 1	Dec. 3	Dec. 5
	13.1 Sequences & Sums	13.2 Arithmetic Seq.	<i>Review for Final Exam</i>