

ATYP Precalculus

Spring 2022 Syllabus

Instructor: Theresa Kohler

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Time: Class runs from 1:20-3:50 pm each Thursday. All classes will take place in 4715 Sangren unless otherwise stated.

Course Description: Second semester, the fast-paced precalculus portion of ATYP's math sequence covers the topics of a standard high school course in trigonometry and analytic geometry, specifically equations, inequalities, graphs, functions which include polynomial, rational, exponential, and logarithmic functions; trigonometry which includes angles, right triangle trigonometry, circular functions, identities and equations; polar equations, parametric equations and conic sections. The course makes extensive use of graphing calculators, which help to promote each student's conceptual understanding of the various topics. Students are given challenge problems each week to promote problem solving skills.

Textbook: *Precalculus Enhanced with Graphing Utilities*, Fifth Edition, Sullivan and Sullivan, ISBN 9780136015789

Calculator: You will need a graphing calculator for this course.

Grade: Your final grade will consist of weekly homework assignments, two exams, and a final exam. Your final grade will be calculated according to the following table:

Category	Percentage of Final Grade
Homework	50%
Exams	50%

Grading Scale: The approximate grading scale which will be used to determine your final grade is given below:

Percentage Earned	Final Letter Grade
85-100	A
80-84	BA
66-79	B
60-65	CB

Homework: Homework will be assigned each week consisting of problems from the textbook. Unless otherwise stated, problems will come from the "Skill Building", "Mixed Practice", and "Applications and Extensions" and Discussion sections of the book problems. Students will submit their homework on the day that it is due. Students will be allowed to make corrections to homework and will then receive solutions to the homework assignments. The original assignment with corrections rewritten on a separate sheet of paper will be resubmitted for a grade no later than one week after it is handed back. Homework problems must be completed in order with the section clearly labelled. You may lose points for unorganized or sloppy homework assignments. Late homework assignments will not be accepted unless there are extenuating circumstances communicated to me prior to when the homework is due, if possible.

Exams: We will have two exams over the course of the semester, not including the final exam. Exams will be taken individually during our normal class time. No makeup exams will be given under normal circumstances. If extreme circumstances force you to miss an exam, proof of these circumstances will be required for you to be given a makeup opportunity.

Exam Dates: The tentative dates for the two exams are Thursday, March 17 and Thursday, May 5. A comprehensive final exam will be held on Thursday, June 2.

Attendance: Attendance at every class is expected but will not be recorded or included in your final grade. If you are not able to come to class, it is your responsibility to find out what material and homework assignments you missed. If you need to miss class, you should still submit your homework prior to when it is due.

Class Preparation: This is a fast-paced course, so you will benefit from preparing for each class in advance. You should plan to read the sections that will be covered in class and work through the examples in the book prior to attending class.

Tentative Schedule:

Class Date	Sections Covered	Homework Problems	Homework Due
1/27	1.1-2.2	1.1-2.2: 2s	2/3
2/3	2.3-3.2	Review: 1.1-2.2: 4s; New: 2.3-3.2: 4s	2/10
2/10	3.3-4.1	Review: 1.1-3.2: 6s; New: 3.3-4.1: 6s	2/17
2/17	4.2-4.6	Review: 2.3-4.1: 8s; New: 4.2-4.6: 8s	2/24
2/24	5.1-5.5	Review: 3.3-4.6: 2s; New: 5.1-5.5: 2s	3/3
3/3	5.6-5.9	Review: 4.2-5.5: 4s; New: 5.6-5.9: 4s	3/10
3/10	6.1-6.6	Review: 5.1-5.9: 6s; New: 6.1-6.6: 6s	3/17
3/17	7.1-7.3, Test 1 (Chapters 1-5)	Review: 6.1-6.6: 8s; New: 7.1-7.3: 8s	3/24
3/24	7.4-7.6	Review: 6.1-7.3: 2s; New: 7.4-7.6: 2s	4/14
3/31	SPRING BREAK		
4/7	SPRING BREAK		
4/14	7.7-8.1	Review: 7.1-7.6: 4s; New: 7.7-8.1: 4s	4/21
4/21	8.2-9.1	Review: 7.4-8.1: 6s; New: 8.2-9.1: 6s	4/28
4/28	9.2-9.5	Review: 7.7-9.1: 8s; New: 9.2-9.5: 8s	5/5
5/5	10.1-10.4, Test 2 (Chapters 6-8)	Review: 8.2-9.5: 2s; New: 10.1-10.4: 2s	5/12
5/12	11.1-11.5	Review: 9.2-10.4: 4s; New: 11.1-11.5: 4s	5/19
5/19	11.6-12.2	Review: 10.1-11.5: 6s; New: 11.6-12.2: 6s	5/26
5/26	12.3, 12.5, 13.1-13.3	Rev.: 11.1-12.2: 8s; New: 12.3, 12.5, 13.1-13.3: 8s	6/2
6/2	Final Exam		

Help Sessions are available online in Microsoft Teams every Sunday from 4-6 p.m. and Tuesdays from 7-8 p.m. Take advantage of this extra opportunity for learning with Tyler!