

## Course Expectations for Precalculus Honors – 4870H

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### **COURSE DESCRIPTION:**

This one-year<sup>†</sup> course is designed for the motivated, above-average student with a strong background in advanced algebra. In addition to reviewing topics from trigonometry, this course includes problem-solving techniques using analytic geometry, vectors, matrices, relations and functions and their graphs, series and sequences, probability and statistics, and the introductory concepts of calculus. This course is distinguished from Precalculus by the instructional pacing and delivery of advanced content. Instructional practices incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to our society. The use of technology, including graphing calculators and computer software, is an integral part of this course. This course will fulfill one of the mathematics credits required for high school graduation.

### **COURSE GOALS:**

1. To understand and use the vocabulary and notation of mathematics. [NS: B]
2. To develop a variety of problem-solving strategies necessary for advanced mathematical or scientific studies. [NS: A, D]
3. To construct and analyze the graphs of polynomial, rational, trigonometric, exponential functions and their inverses.  
[NS: 1.12.6, 1.12.7, 1.12.8, 2.12.2, 2.12.3, 2.12.4, 2.12.5, 2.12.6, 4.12.5]
4. To solve equations and inequalities, including those involving complex numbers.  
[NS: A, D, 1.12.7, 1.12.8, 2.12.2, 2.12.3, 2.12.4, 2.12.6, 4.12.5]
5. To solve problems and study real-world applications of sequences and series, vectors, complex numbers, and matrices.  
[NS: A, D, 1.12.6, 1.12.7, 1.12.8, 2.12.1, 2.12.2, 2.12.3, 2.12.6, 4.12.5, 5.12.4]
6. To validate mathematical conjectures using mathematical induction.  
[NS: C, 2.12.2, 4.12.9]
7. To graph equations using the polar coordinate system. [NS: 2.12.4, 4.12.5]
8. To develop an intuitive understanding of the basic concepts of calculus including limits, areas under curves and slopes of curves.  
[NS: 2.12.1, 2.12.2, 2.12.4, 2.12.6, 4.12.5, 5.12.4]
9. To solve real-world problems applying the techniques of descriptive statistics.  
[NS: D, 5.12.1, 5.12.2, 5.12.4, 5.12.5, 5.12.6]
10. To communicate effectively using the language of mathematics in both oral and written forms. [NS: B]

†If this course is offered as a semester course, it is assumed that the trigonometry and/or probability and statistics topics would be covered during the alternate semester of mathematics using the appropriate syllabus (Trigonometry 4850H or Probability and Statistics 4860H). A semester course will fulfill one half of one of the mathematics credits required for high school graduation.

Note: Each goal in this course incorporates topics that exceed the Nevada State Standards in Mathematics.

Revised May 2008

CPD-MST-SG-4870H

## COURSE REQUIREMENTS AND GRADING PROCEDURES:

### GRADING POLICY

The purpose of grades is to provide effective feedback to students, parents, and the school administration about a student's progress towards mastery of the established standards for a particular course or subject. As such, other factors such as attendance, effort and behavior will not be considered when calculating a student's grade. However, **excessive absences** (Seven unexcused absences during a semester) may result in a loss of credit in accordance with CCSD Regulation 5113. Extra credit will **not** be permitted unless the work is specifically designed to provide more evidence of a student's progress towards mastery of the established standards.

Teachers will provide students with unit overviews that outline the performance expectations for that unit. These outlines will be accompanied by rubrics that define the levels of proficiency students are expected to demonstrate. The goal is for students to become more involved in monitoring their level of proficiency and participating in Assessment for Learning in order to improve their performance.

Students will be graded on a 0-100 point scale, with the following grade equivalents:

90-100	=	A	Consistently exceeds standards
80-89	=	B	Consistently meets standards
70-79	=	C	Approaching standards
60-69	=	D	Emergent
0-59	=	F	Does not meet standards/ Evidence not provided

In order to demonstrate sufficient evidence of proficiency, a student will be required to make arrangements with the teacher to make-up any assessments missed due to an absence. Failure to complete required assessments may result in a lower grade or a failing grade due to a lack of evidence.

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Throughout the semester, students will be expected to complete formative and summative assessments. The Southwest Career and Technical Academy will be incorporating Project-Based Learning across the curriculum. The project-driven assessments will be implemented and assessed according to a standard rubric for all students, based on our beliefs in the attributes of Academic Knowledge, Character, Skills, Work Ethic, and Preparation. Further assessments include, but are not limited to, homework, class activities, participation, lab activities, class projects, quizzes, and exams. For this subject, assessments will be weighted as follows:

### Project-Based Learning and the Six Tenets

The Southwest Career and Technical Academy is dedicated to assessing student learning and achievement through Project-Based Learning (PBL). The Southwest CTA uses six tenets, or beliefs, to assess student performance during each PBL assessment. These tenets will be the basis of grading during each PBL project. The six tenets are as follows:

- Content Knowledge
- Work Ethic
- Use of Resources
- Teamwork and Collaboration
- Professional Presentations
- Writing Skills

These tenets may also be used in the classroom setting at the teacher's discretion.

Content Knowledge	40%
Writing Skills	15%
Presentation Skills	10%
Use of Resources	10%
Teamwork	10%
Work Ethic	15%

Tenet	Examples
Content Knowledge	The Clark County School District has set standards and specific benchmarks for all Mathematics teachers to follow. Student's content knowledge will be graded on tests (mostly multiple choices), quizzes, homework and projects. Students will have to demonstrate mastery and retention of the content taught throughout the school year.
Writing Skills	Students will be graded on their writing skills on tests, homework and projects. Students will have to show clear work in solving a Mathematical Problem, in their essay responses of their tests, project and interactive notebook. Student's notebook includes daily review, notes, assignments and in-class learning

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	documentation.
Presentation	<p>During the year students will be required to deliver a well developed presentation to an audience of their fellow peers and at times in front of a panel of teachers, or other adults. Students professional presentation grade includes oral presentation of projects, as well as informal presentations of their interactive notebook to the class.</p> <ul style="list-style-type: none"> <li>•</li> </ul>
Use of Resources	<ul style="list-style-type: none"> <li>• Students will demonstrate proficiency in the use of resource tenet by coming to class prepared with all required materials such as their interactive notebook, writing utensil, and assigned graphing calculators. In addition, students will demonstrate their ability to maintain their interactive notebook to the class established standards.</li> </ul>
Teamwork/Collaboration	<p style="text-align: center;"><i>Class Activities</i></p> <p>Students will start every class period with a warm up activity. Students who are late or absent will not be able to make up the warm up activity. Warm-ups are a second way to check attendance.</p> <p>There will be a wide variety of learning activities in small groups, individual exploration or class presentation; students should be flexible and willing to participate in all activities. Class activities are not always possible to make up when a student is absent. This means that some points may be lost regardless of an excused or unexcused absence.</p> <p style="text-align: center;"><i>Project Collaboration</i></p> <p>Students are required to participate in group work and for the project. They will be graded on their teamwork and collaboration in each project.</p>
Work Ethic	<p>Students are required to be responsible and turn in their assignments at the designated deadlines (such as homework and project scaffolds). If students do not turn in assignments on time they do NOT receive a work ethic grade for that assignment regardless of circumstances. It is important for each student to show consistency and responsibility in their work ethic.</p>

According to CCSD regulation 5121, “Semester exams shall be comprehensive of the material covered during the semester and may be worth up to, but not exceed, 20% of the student’s final semester grade. Final semester grades shall reflect assignments and assessments completed throughout the semester and the final exam grade”. Semester grades are not to account for more than 10% of the final grade. Semester grades will be calculated as follows:

Quarter 1 Grade	=	45%
Quarter 2 Grade	=	45%
Semester Exam	=	10%
Semester Grade	=	100%

## REQUIRED MATERIALS

- 3-5 Subject Spiral Notebook (this notebook is only for Math and will last the entire year, it is wise to get a spiral notebook with a strong plastic cover)
- Glue stick (students will need these constantly throughout the year)
- Pencil and a red pen (Students are required to take the correction of their work in a colored pen other than black)
- Highlighter

\*Additional items may need to be purchased for lab and PBL activities.

## MAKEUP WORK POLICY

### The following language is from CCSD Regulation 5113:

Teachers shall provide an opportunity for a student to make up missed work due to any absence, and students shall be held accountable for the work. When a student is absent, however, the educational experiences lost during that absence might be irretrievable because the instruction and interaction in the instructional setting cannot be duplicated through makeup work.

After any absence, a secondary student is required to initiate contact with the teacher(s) to obtain appropriate makeup work **within** three school days immediately following the absence. Once contact has been made with the teacher(s), specific makeup work must be completed and returned to the teacher(s) within a reasonable length of time, to be determined by the teacher and communicated to the student/parent or legal guardian. The makeup work

must be returned to the teacher(s) by the specified due date if it is to be acknowledged. Students shall be allowed a minimum of three (3) days to complete makeup work.

In the event that a chapter test or quiz is deemed appropriate for a retake at the teacher's discretion, students will be required to complete a review sheet or a review session before any retake. Depending on the time and the school district Benchmark calendar, students most likely will be required to complete it at home or after school during a schedule review session. Any retake of chapter test or quiz will be weighted and factored in at the teacher's discretion\*. Make sure to check Parentlink, as a note for parents and students will be added informing of the day the student retook the test. The calendar on the teacher's website will also inform of any opportunity of a test or quiz retake. In order not to take away from instruction time, retakes are often scheduled after school. If in the event a student misses the scheduled time of the retake, students will have to schedule an appointment with the teacher before the retake day or the chance of any retake is forfeited. Each case will be addressed individually according to personal circumstances. Honesty will be expected at all time.

\* Test retake can't replace a failing grade to a grade above a 75%, however note that each case will be reviewed individually and taken in consideration if necessary.

### **LATE WORK POLICY**

Late work that is considered practice (homework, classwork, etc.) will be accepted and graded for credit at the teacher's discretion.

Students have until most current chapter test to turn in any missing work or homework corrections for that chapter. Work from the current chapter will not be accepted or graded after the chapter test. Any make up work must be completed after school with the teacher's presence. If students are not able to attend the after school make up time, parents will have to sign and date the student's work in the notebook.

Notebooks are to be turned in on quiz and test days and will not be accepted late. If necessary, retake or rescheduling of chapter tests cannot be taken on any other day then scheduled administration day or during instruction time.

## *DISCIPLINE PROCEDURES AND CITIZENSHIP GRADING:*

### **A. Classroom Discipline Plan**

- Be respectful to others.
- To be in their assigned seat
- Be prepared and on time for class.
- Practice on-task behavior.
- Use only appropriate language.
- Keep food and beverages out of the classroom.

The following steps in the Southwest Career and Technical Academy Progressive Discipline Plan will be followed when students do not follow established rules and behave inappropriately:

<b>STEP ONE:</b>	<b>Teacher-Student Conference (Warning)</b>
<b>STEP TWO:</b>	<b>Parent Contact by Teacher (Phone or Letter)</b>
<b>STEP THREE:</b>	<b>Counselor Referral</b>
<b>STEP FOUR:</b>	<b>Dean's Referral</b>

**Some offenses are serious enough to warrant a referral to the Dean for the initial infraction (e.g.: physical violence, gross insubordination, truancy, etc.)**

### **B. Tardy Policy**

Timeliness Is Expected (T.I.E.) program promotes being on time as a basic skill for success that every person needs to possess. Through this program, it is our expectation that SWCTA students arrive on time to every class. Not only are students developing skills for success in high school but for the rest of their lives. Being on time before school may require special attention from the student's parent or guardian.

When a student is tardy during the 2011-2012 school year, the student will bring home a tardy slip. Any tardy during 1st block will result in a deans' detention to be served after school the following day. Detention will be served from 1:30-2:00 in a room designated by the dean's office. In addition to dean's detention, the third tardy in 1st block will also result in a Required Parent Conference, and a sixth tardy will result in one day of suspension. A day of suspension will be given for every tardy thereafter. Tardies received for any other periods of the day will require a parent or guardian to bring the student to school the next day and sign them in at the dean's office. Students who attempt to attend classes before being reinstated will be required to call home and get a parent to come sign them in or get permission to leave campus. Students not signed in will be placed on RPC (Required Parent Conference) pending a parent conference.

It is our goal that all students achieve to the best of their ability. By being on time to each class, students have a better opportunity to be successful. Parents or guardians may contact the Dean's Office at 799-5766 (X4500) in the event that there are questions regarding our Timeliness Is Expected program.

**C. Cell Phone/Nuisance Item Policy**

The Southwest Career and Technical Academy cell phone/nuisance item policy is in accordance with CCSD Regulation 5136 and the specific needs of the Southwest Career and Technical Academy.

- FIRST OFFENSE: Warning/Copy of Policy/Confiscation**  
**SECOND OFFENSE: RPC-B/Parent Pick-Up/Confiscation**  
**THIRD OFFENSE: RPC-T/Behavior Contract/Parent PickUp/Confiscation**  
**FOURTH OFFENSE: 1 Day Suspension/Parent Pick-Up/Confiscation**  
**FIFTH OFFENSE: 3 Day Suspension/Parent Pick-Up/Confiscation**  
**SIXTH OFFENSE: 5 Day Suspension/Parent Pick-Up/Confiscation**

**D. Citizenship Policy**

CATEGORY	<b>Outstanding (4)</b>	<b>Satisfactory (3)</b>	<b>Needs Improvement (2)</b>	<b>Unsatisfactory (1)</b>
Engagement	Consistently involved in class activities; contributes to overall learning process; collaborates with others and/or the teacher.	Engages in class activities, but may have to be encouraged; works with others or groups, but may not initiate collaboration.	Does not engage in class activities; rarely demonstrates initiative and may occasionally disengage from class.	Consistently uninvolved in class activities. Adamant refusal to work.
Preparation	Consistently prepared with materials; work is on time and may go beyond expectations.	Student has materials and submits work in a timely fashion and as expected.	Student may have had multiple instances of being unprepared, late work, or not completed as requested.	Consistently unprepared for class. Does not submit work on time or at all.

Behavior	Consistently respectful of both classmates and adults; Takes responsibility for individual actions; Consistently complies with school and classroom rules.	Respectful to both peers and adults. Occasionally accepts personal responsibility. Mostly complies with school and classroom rules.	Disruptive to others. Argumentative and defensive when disciplined. Disregard for school or class rules.	Consistent disrespect to classmates or adults. Regularly disruptive to learning process and violation of school or class rules. <b>Plagiarism</b>
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**Student citizenship grades are reported as follows: (This part cannot be changed)**

- O = Outstanding**
- S = Satisfactory citizenship**
- N = Needs Improvement**
- U = Unsatisfactory citizenship**

**CODE OF HONOR**

**Nevada Department of Education**

There is a clear expectation that all students will perform academic tasks with honor and integrity, with the support of parents, staff, faculty, administration, and the community. The learning process requires students to think, process, organize and create their own ideas. Throughout this process, students gain knowledge, self-respect, and ownership in the work that they do. These qualities provide a solid foundation for life skills, impacting people positively throughout their lives. Cheating and plagiarism violate the fundamental learning process and compromise personal integrity and one's honor. Students demonstrate academic honesty and integrity by not cheating, plagiarizing or using information unethically in any way.

**What is cheating?**

Cheating or academic dishonesty can take many forms, but always involves the improper taking of information from and/or giving of information to another student, individual, or other source. Examples of cheating can include, but are not limited to:

- ➡ Taking or copying answers on an examination or any other assignment from another student or other source
- ➡ Giving answers on an examination or any other assignment to another student
- ➡ Copying assignments that are turned in as original work\*
- ➡ Collaborating on exams, assignments, papers, and/or projects without specific teacher permission

- ➡ Allowing others to do the research or writing for an assigned paper
- ➡ Using unauthorized electronic devices
- ➡ Falsifying data or lab results, including changing grades electronically

*\*This includes submitting the same assignment to two separate teachers without prior permission.*

### **What is plagiarism?**

Plagiarism is a common form of cheating or academic dishonesty in the school setting. It is representing another person's works or ideas as your own without giving credit to the proper source and submitting it for any purpose. Examples of plagiarism can include, but are not limited to:

- ➡ Submitting someone else's work, such as published sources in part or whole, as your own without giving credit to the source
- ➡ Turning in purchased papers or papers from the Internet written by someone else
- ➡ Representing another person's artistic or scholarly works such as musical compositions, computer programs, photographs, drawings, or paintings as your own
- ➡ Helping others plagiarize by giving them your work

All stakeholders have a responsibility in maintaining academic honesty. Educators must provide the tools and teach the concepts that afford students the knowledge to understand the characteristics of cheating and plagiarism. Parents must support their students in making good decisions relative to completing coursework assignments and taking exams. Students must produce work that is theirs alone, recognizing the importance of thinking for themselves and learning independently, when that is the nature of the assignment. Adhering to the Code of Honor for the purposes of academic honesty promotes an essential skill that goes beyond the school environment. Honesty and integrity are useful and valuable traits impacting one's life.

*\*This includes submitting the same assignment to two separate teachers without prior permission.*

*Questions or concerns regarding the consequences associated with a violation of the Code of Honor may be directed towards your child's school administration and/or the school district.*

**Dear Families,**

Please sign and detach this portion along the line above and have your child return it to the teacher listed below, so that you may keep this copy of the course expectations for future reference. Please contact Ms Chang Grace at 799-5766, if you have any questions regarding the information included in this document. I look forward to meeting you and becoming a partner in your child's educational experience at Southwest Career and Technical Academy.

**Teacher**  
**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**I HAVE READ THESE COURSE EXPECTATIONS AND UNDERSTAND THE EXPECTATIONS FOR MY CHILD THIS YEAR.**

**Parent/Guardian**  
**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**I HAVE READ THESE COURSE EXPECTATIONS AND UNDERSTAND THE EXPECTATIONS FOR ME DURING THIS SCHOOL YEAR.**

**Student**  
**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

*Please indicate your preference, sign and date this form below.*

**I give** my child permission to view "PG" rated films.

**I do not give** my child permission to view "PG" rated films with the understanding that an alternative assignment will be given.

Parent/Guardian Signature: \_\_\_\_\_

Date: \_\_\_\_\_

# Southwest Career and Technical Academy 2011-2012

**Ms Chang will contact most parents throughout the year and use this page to record that contact. Please provide accurate and up-to-date information. Also please print.**

Student name: \_\_\_\_\_ Period \_\_\_\_\_

Student school ID: \_\_\_\_\_

Father / Guardian Information	Mother / Guardian Information
Name:	Name:
Home phone:	Home phone:
Cell phone:	Cell phone:
Work phone:	Work phone:
Email address (more effective):	Email address (more effective):

**Contact Record**

The chart below is for Ms Chang use only. There is no need to fill in any information. Please record my email address for any concerns. [gjchang@interact.ccsd.net](mailto:gjchang@interact.ccsd.net)

Date	Time	Spoke With	Reason for Contact / Notes