COURSE: MATH 127 – PRECALCULUS II
SECTION: Section 2002
CREDIT: 3 Credit Hours
TIME: Tuesday and Thursday: 11:00 am – 12:20 pm
LOCATION: Cheyenne H-204
INSTRUCTOR: Chris King
OFFICE: S-143 B (Cheyenne Campus)
OFFICE HOURS: TR: 8:00 am – 9:00 am and 12:30 pm – 1:00 pm (Cheyenne S-143 B),
TR: 3:30 pm – 4:30 pm (West Charleston K-406)
EMAIL: christopher.king@csn.edu
WEBSITE: http://sites.csn.edu/cking

COURSE DESCRIPTION:
Topics include an in-depth investigation of trigonometric functions and their graphs,
analytic trigonometry, solutions of triangles, vectors and analytic geometry.

PREREQUISITES AND TRANSFERABILITY:
Math 126 with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

TEXTBOOK:
There is no required book. Students will need access to the ALEKS 360 Precalculus,
Miller, 1st ed.

CALCULATORS:
A graphing calculator is required for this course. TI-83 or 84 Plus is recommended.
(Instructor will use TI-84 Plus for in class demonstration)

OBJECTIVES:
Upon completion of the course, the student should be able to:

a. Analyze trigonometric and parametric function properties.
b. Graph trigonometric and parametric functions
c. Verify trigonometric identities.
d. Solve trigonometric and parametric equations.
e. Solve triangles using the Laws of Sines and Cosines.
f. Analyze the concepts of vectors and polar coordinates.
g. Investigate properties of conic sections.
h. Apply and extend all concepts.
ATTENDANCE:
In order to be successful in this class, attendance is critical. Come to class prepared. Each student should read the section(s) to be discussed during the lecture, bring paper, pencils or black/blue pens etc. I do NOT have extra pens, pencils, or paper to give you. In addition, I don’t loan out my calculator. It is your responsibility to make sure that you have a calculator with you at all times. If you miss class, it is your responsibility to obtain missed material and to get the assignment from another student. Please turn off electronics devices before entering the classroom. If you come to class late, please be courteous and quiet. Do not disrupt the class. No eating is allowed in the classroom.

IF YOU QUIT ATTENDING AND DO NOT OFFICIALLY WITHDRAW, YOU WILL RECEIVE A GRADE BASED ON WHAT YOU HAVE EARNED IN THE CLASS. IT IS THE POLICY OF CSN THAT THE INSTRUCTOR CAN NOT ISSUE “W” TO A STUDENT.

HONESTY:
The instructor assumes honesty on the part of all students; however, cheating, plagiarism, and other acts of academic dishonesty are held as serious offenses. Instructors have the responsibility to report any such incident in writing to the administration. Students should refer to http://www.csn.edu/pages/3342.asp for more information about academic dishonesty and integrity.

COUNSELING/ADVISING:
The purpose of counselors and advisors is to help students select courses, complete degree audits, obtain transfer information, and provide personalized assistance in developing educational and vocational plans appropriate to personal interests and abilities of each student. Contact information: CHARLESTON Bldg. D – Lobby, 651-5670; CHEYENNE E-107 Student Services Area, 651-4049; HENDERSON Bldg. B - Student Services Area, 651-3165

FACULTY E-ALERT (THE ELECTRONIC EARLY WARNING SYSTEM):
The Faculty E-ALERT system is used by faculty members as a confidential means to submit, to Retention Services, the names of students having academic problems in a class so that they can be offered timely assistance. Faculty places the referral through CSN’s restricted Web Grading system. The E-Alert System is managed by the Office of Student Retention Services.

MATH RESOURCE CENTERS:
The Math Resource Centers offer FREE individual and group, drop-in tutoring assistance in various levels of math and science. Contact information: CHARLESTON Bldg. K – Room 406, 651-7615; CHEYENNE Room 2651, 651-4088; HENDERSON Bldg. C – Room 119, 651-3167.

RENTENTION/STUDENT SUCCESS SERVICES:
Trained specialists/advocates help students assess personal strengths and limitations, determine the root of a variety of academic struggles, develop college
success strategies, implement action plans, provide tools to navigate the educational system, show the availability campus and community resources, and give direction on how to connect to campus life. Contact information: CHARLESTON Bldg. B-119, 651-7367; CHEYENNE E-120 Student Services Area, 651-2626; HENDERSON Bldg. B – 130, 651-3103.

TRIO STUDENT SUPPORT SERVICES:
The Trio Student Support Services Center offers support for first-generation and disabled college students, providing information for financial aid eligibility, tutoring, academic advising, career exploration, college-transfer assistance, and the development of college success strategies. Contact information: CHEYENNE E-109, 651-4441.

TUTORIAL SERVICES:
All CSN students are offered free one on one tutoring for 3 hours per week. One on one sessions will be available for students from 3 pm to 7 pm Monday thru Friday. To make arrangements for this benefit, you must take your semester schedule to Tutorial Services at the campus of your choice, and activate your CSN student email account. The earlier you apply for help, the more likely you are to succeed. Contact information: CHARLESTON Bldg. D – Room 203, 651-5732; CHEYENNE E-201 (Library), 651-4232; HENDERSON Bldg. C – Computer Lab, 651-3125.

GRADING:
The course will consist of 1000 total points:

GRADING BREAK DOWN:
4 Test @ 125 points each
2 Project @ 50 points each
Online Homework: 200 points
Comprehensive Final Exam: 200 points

GRADING SCALE:
A: Above 899.4
B: 799.5 – 899.4
C: 699.5 – 799.4
D: 599.5 – 699.4
F: Below 599.5

HOMEWORK: Homework will be through the ALEKS learning management system. Please see the ALEKS info sheet for more information. ALEKS will create personalized homework assignments for each person. They are objective based and will be tied to the objectives we cover each week. Homework assignments will be due at least twice a week by 11:59 pm. It is in your VERY BESY interest to start homework early in the week and not wait until the last minute. If you wait until the last minute to complete the homework, you may not finish by the deadline and there are no extensions for assignments.
**PROJECTS:** There will be projects in this course that will be applications of material that is covered in the course. The projects will be in-class group activities that require students to be present. For each project, students will be asked a series of questions that will guide them through it. Students will work as a group to answer the questions within the project during the allotted class time. If a student misses a project day, there will be no chance to make up the project. It is extremely important to ensure that you are present on these days.

**EXAMS:** There will be four in-class exams, a comprehensive, in-class final exam. The dates of these exams are listed in the schedule. Each exam will be designed to test your understanding of the material covered in class and in the homework assignments. There will be no makeup on a missed exam for any reason. Since final exam is comprehensive, you will have the opportunity to replace your lowest exam score with the score that you make on the final exam, provided you score higher on the final than your lowest exam score. If you miss more than one regular exam, you will get a zero for each one missed with no chance to make-up/replace the grade. Exams have to be taken during class time.

**NOTE CARD REQUIREMENTS:**
On each regular class test, you will be allowed to use one 3" by 5" note card. You are allowed to put any procedures, formulas, or rules, but no examples. The note card will be turned in with the test. For any examples on the note card, I will deduce 5 points for each example from your test grade. NO NOTE CARD WILL BE ALLOWED ON THE FINAL EXAMS.

**STUDYING:** some hints for studying/learning Mathematics are:

a. Attend every class and pay attention.

b. Practice is the key to success. Learning Math is an active process. You must work problems; the general rule of thumb is for students to spend 2 hours of time outside of class for every hour inside class. Utilize tutors, computer tutorials, and other study aids.

c. Mistakes are a natural part of the learning process. Do not be frightened by them, but profit by them.

d. Keep up with assignments. Moderate daily study is much more effective than intensive stretches before an examination. Do not cram for an exam.

e. Ask questions.
IMPORTANT DATES:
January 18th       MLK Holiday
January 19th       Spring Semester Begins
February 15th     President’s Day Holiday
March 4th         Last day to apply for Spring 2016 Graduation
March 14 – 20     Spring Recess
March 25th        Last day to change from credit to audit
March 25th        Last day to withdraw from a class with a “W”
May 15th          Spring Semester Ends

CLASSROOM BEHAVIOR:
Instructors have the responsibility to set and maintain standards of classroom behavior appropriate to the discipline and method of instruction. Students may not engage in activity that the instructor deems disruptive or counterproductive to the goals of the class. Instructors have the right to remove offending students from class. Repetition of the offense may result in expulsion from the course. PLEASE TREAT ALL OTHER STUDENTS WITH RESPECT. AS A MATTER OF COMMON COURTESY TO OTHER STUDENTS AND THE INSTRUCTOR, PLEASE:

a. Turn off cell phones or place on vibrate. Leave the room if necessary to answer phones. There will be NO cell-phone, headset or internet use or texting during this class.
b. Do not disrupt class by talking to your neighbor. There are to be no “sidebar” conversations.
c. Be on time to class and attend all classes. Do not schedule appointments, etc. during scheduled class times.
d. Don’t just walk out of class: it is rude and disruptive. If you have a prior commitment, which absolutely has to be made for a time during class, inform the instructor at the beginning of the class.
e. Don’t waste class time asking the instructor to re-do material you were absent for or did not complete in the homework: use videos, computer tutorials, tutors, or instructor office hours.
f. Pay attention. Participate fully in class activities.
g. In the event that a student finds another student’s words, actions or demeanor offensive, please inform instructor.

Student’s Rights:
Student’s rights and responsibilities pertaining to CSN policies and services can be found in the College Catalog and on the CSN website http://www.csn.edu/pages/660.asp

DRC:
If you have a documented disability that may require assistance, you will need to contact the Disability Resource Center (DRC) for coordination of your academic accommodations. The DRC is located in Student Services on each campus. For
Henderson the number is 651-3795, and the Cheyenne number is 651-4045. For those students who would like to earn a little extra cash, stop by the DRC to fill out a job interest card. The DRC office hires students as note takers, proctors, scribes and research assistants as needed.

Libraries:
The libraries offer many workshops that may or may not pertain to this class throughout the semester. The schedule can be found at www.csn.edu/LibraryWorkshops or by calling 651-5729 for more information.

SAFETY:
Please note emergency exits. Please inform instructor of any environmental hazards. A copy of the Mathematics departmental safety plan is on file at the Mathematics Department office at the Cheyenne campus.
# MATH 127 Precalculus II

## Spring, 2016

### Tentative Schedule*

<table>
<thead>
<tr>
<th>Dates</th>
<th>Lessons</th>
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<tbody>
<tr>
<td>January 19th</td>
<td>Intro, Syllabus, 5.1</td>
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<td>January 21st</td>
<td>5.1 – 5.2</td>
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<td>January 26th</td>
<td>5.3 – 5.4</td>
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<td>January 28th</td>
<td>5.4 – 5.5</td>
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<td>February 2nd</td>
<td>5.5 – 5.6</td>
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<td>February 4th</td>
<td>5.6 – 5.7</td>
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<td>February 11th</td>
<td>5.7</td>
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<td>February 16th</td>
<td>Review</td>
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<td>February 18th</td>
<td>Test 1</td>
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<td>February 23rd</td>
<td>6.1</td>
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<tr>
<td>February 25th</td>
<td>6.2 – 6.3</td>
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<tr>
<td>March 1st</td>
<td>6.3 – 6.4</td>
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<td>March 3rd</td>
<td>6.5</td>
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<td>March 8th</td>
<td>Review</td>
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<td>March 10th</td>
<td>Test 2</td>
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<tr>
<td>March 22nd</td>
<td>7.1 – 7.2</td>
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<tr>
<td>March 24th</td>
<td>7.2 – 7.3</td>
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<tr>
<td>March 29th</td>
<td>Review</td>
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<tr>
<td>March 31st</td>
<td>Project 1</td>
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<td>April 5th</td>
<td>Test 3</td>
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<td>April 7th</td>
<td>8.1</td>
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<td>April 12th</td>
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<td>April 14th</td>
<td>8.4 – 8.5</td>
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<td>April 19th</td>
<td>Review</td>
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<td>April 21st</td>
<td>Project 2</td>
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<td>April 26th</td>
<td>Test 4</td>
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<td>April 28th</td>
<td>11.3</td>
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<td>May 3rd</td>
<td>11.1, 11.2</td>
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<td>May 5th</td>
<td>Review</td>
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<td>May 10th</td>
<td>Final Exam</td>
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### Disclaimer

* The instructor reserves the right to modify the above schedule as necessary. It is the student’s responsibility to be aware of any changes made. The instructor also reserves the right to change the schedule in any manner at any time with written notification.