**Math 1082, Section <No.>**

**PreCalculus: Algebra**

**Fall 2018 Semester**

**<Meeting time; Room>**

**Instructor:** <Instructor’s Name>

**Office:** <Office Building -Room No.>

**Email:** <Email address>

**Office hours:** <Days and times>

**Final Exam: <Day, Date and time>**

**MyOpenMath:** Get your free account at myopenmath.com. Course ID: \_\_\_\_\_\_\_\_\_\_. Enrollment Key:\_\_\_\_\_\_\_\_\_\_\_\_\_(Instructors: Please copy **this course** 36862 to create your own course and give students **your course** ID. When you have your course set, DELETE these yellow lines.)

**Textbook:** we will use free e-Text from MyOpenMath.

**Lab Worksheets**: You may either print out the lab worksheets from your MyOpenMath course or else purchase a course pack from the campus bookstore.

To protect your confidential educational records, you are permitted to use an alias instead of your real name when creating your MyOpenMath account. If you do so, please let me know your MyOpenMath name, so that I can give you credit for your homework score.

**General course description:** This course covers fundamental concepts in PreCalculus. You may think that this course or math in general is hard. I assure you that even the most accomplished mathematicians have struggled at some point in their careers. I am here to help you. With some effort and dedication, you surely can succeed in this course.

Please note that by passing Math 1082, you will fulfill your General Education B4 requirement.

Math 1082 confers 3 units of baccalaureate credit.

**Prerequisites:** None.

**Topical outline:** Functions, exponential and logarithmic functions; polynomials and rational functions; systems of linear equations and matrices; sequences and series including arithmetic and geometric series.

**Student learning outcomes:** Students who successfully complete this course will be able to:

1. Manipulate functions, apply transformations to functions, and find the inverse of a 1-1 function.

2. Manipulate and solve exponential and logarithmic expressions and equations.

3. State basic facts about polynomial and rational expressions and equations and manipulate them as needed in calculus or other future work.

4. Manipulate and solve systems of linear equations in several ways, including representing them in terms of matrices. Manipulate matrices.

5. State key definitions and facts about sequences and series; identify important examples of arithmetic and geometric sequences and series.

6. Translate a verbal description (“word problem”) into a mathematical formula or function and then solve the problem using the appropriate mathematical technique.

7. Use mathematical concepts and quantitative reasoning to solve problems, both in a pure mathematical context and in real-world contexts.

8. Interpret information presented in a mathematical form (e.g. equations, graphs, diagrams, tables, words) and convert relevant information into a mathematical form.

9. Draw appropriate conclusions based on the quantitative analysis of data, recognizing any underlying assumptions or limits of this analysis.

10. Use deductive reasoning in a pure mathematical context to draw conclusions and provide an irrefutable logical justification for them.

11. Formulate and communicate a position on a real-world question and use appropriate quantitative information in support of that position, and evaluate the soundness of such an argument.

**Requirements / Grading system**

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| --- | --- |
| Homework  Quizzes / Participation | 10 %  20 % |
| Midterms | 40 % |
| Final Exam | 30 % |
|  |  |

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| --- | --- |
| **Cutoff** | **Grade** |
| Less than 70% | NC |
| 70% | C |
| 77% | C+ |
| 80% | B- |
| 83% | B |
| 87% | B+ |
| 90% | A- |
| 93% | A |

**The course grade for Math 1082 is based entirely on the college-level PreCalculus material.** The lab worksheets and activities in Math 1082 are designed to help learn the material in Math 1082 but will not directly affect the Math1082 course grade.

**<Add details of Course Requirements Here>**

**Smart Start Learning Community**: Pro-active advising and supplemental instruction:

To assist you in successfully completing this course, the Math department and Smart Start communities will reach out to students who might benefit from additional advising or supplemental instruction. If you receive an email from Smart Start, you will be invited to a mandatory meeting with a Smart Start advisor and will invited to become part of the Smart Start learning community where students come together to strengthen their math, critical thinking, and study skills.

**Calculator Policy**: Scientific calculators are allowed. Phones and electronic devices will not be allowed during classtime.

**Emergency Preparedness:** In an emergency, leave the building using staircases (and in an earthquake, wait to do so until the shaking has stopped). Move quickly to the meeting point and follow the instruction of the building coordinators. *Make sure to check in with me so I know that you are accounted for.*If one of your classmates needs help in evacuating, please assist. If you know that you will need assistance in an emergency and it is not obvious that this is the case, please see me so I can be aware of your need for assistance.

**ADA statement:** Reasonable accommodation will be provided to any student who is registered with the Office of Students with Disabilities and requests needed accommodation.

**Academic honesty statement:** I will abide by the University Policy on academic dishonesty. This policy can be found, for example, in the Schedule of Classes. Students are expected to do their own work. Copying the work of others, cheating on exams, and similar violations will be reported to the University Discipline Officer, who has the authority to take disciplinary actions against students who violate the standards of academic honesty.

**Student responsibilities:** Students are responsible for being aware of all announcements that are made in class, such as changes in exam dates, and cancellation of class due to instructor’s absence. Students are responsible for announcements made on days that they are absent.

Students must check their CSULA email account regularly for information from the instructor and the Department. Failure to do so may result in missed deadlines or other consequences that might adversely affect students. Note that you can forward this email account to any other account of your choosing.

**Important Dates:**

|  |  |
| --- | --- |
| Fall 2018 No record drop deadline (use GET to drop) | Sep. 4 (Tu) |
| Add Deadline | Sep. 4 (Tu) |
| “ W” Withdraw Deadline | Nov. 14 (W) |
| Emergency Withdraw Deadline | Dec. 7 (F) |
| Campus Close | Sep. 3 Labor Day  Nov. 12 Veterans Day  Nov. 19-21 Fall Recess  Nov. 22-24 Thanksgiving Holidays |
| Finals Week | Dec. 10-15, 2018 |

**Your next math class:** Your next math class after you pass Math 1082 will depend on your major:

|  |  |
| --- | --- |
| **If your major is...** | **...then in the Fall you should take...** |
| * Chemistry and Biochemistry (Biochemistry, B.S.; Bioinformatics and Computational Biology Minor; Chemistry, B.S.) * Civil Engineering (Civil Engineering, B.S.) * Computer Science (Computer Science, B.S.) * Electrical Engineering (Electrical Engineering, B.S.) * ECST (Engineering with Special Options, B.S.) * Geosciences and Environment (Geology, B.S., Geology Option; Geology, B.S., Environmental Geosciences Option) * Kinesiology & Nutritional Science (Food Science & Technology, B.S.) * Mathematics (Mathematics, B.S.) * Mechanical Engineering (Mechanical Engineering, B.S.) * Natural Science (Options I and II, not biology emphasis) * Physics and Astronomy (all programs) | MATH 1083 |
| * Biological Sciences (Biology, B.S.; Microbiology, B.S.) * Kinesiology and Nutritional Science (Exercise Science, B.S.) * Natural Science (biology emphasis, or Option III) | MATH 1085 |
| * Kinesiology and Nutritional Science (Kinesiology, B.S.) * Technology (Industrial Technology, B.S.) | Passing Math 1082 fulfills the math requirement for your major. |

**Smart Start:** General questions about the Early Start program should be directed to the Smart Start office, located in Library North 1034. Their phone number is 323-343-3184**.**