College Algebra | Lecture

Academic Year 2020-2021

Course Information

Course Numbers	Total Units	Time Requirement
MATH111	**4 (lecture only)**	**75 hrs**

Course Details

Recommended Prerequisites

High School Diploma or equivalent; General Education courses are highly recommended

Course Description

This course prepares science majors for the calculus sequence and algebra-based physics (emphasizing basic concepts of algebra) and is also suitable as a general education elective for non-science majors. Concepts to be covered in this course include basic concepts of algebra, equations, and inequalities along with functions and graphs, polynomial and rational functions, exponential and logarithmic functions, systems, matrices and determinants, linear programming, conic sections, sequences, series, and combinatory.

Lecture and Laboratory Communication

A website will be set up on Canvas by your instructor.
Log in with your Username and password: **https://scuhs.instructure.com**

Faculty Information

Refer to the Canvas course webpage for this information.

Class Meeting Times

Refer to Canvas course webpage for this information.

Instructional Materials

Required Text(s)

College Algebra Enhanced by Miller, 2nd edition (Connectmath©)

Course Purpose

Student Learning Outcomes

Upon completion of this course, students will:

1. Demonstrate thorough knowledge and understanding of the fundamental principles and core concepts of intermediate Algebra.
2. Apply their knowledge to appraise scientific and technical literature in Algebra.
3. Assess algebra problems and develop solutions or strategies to solve those problems based on logic and the knowledge acquired during this course.

Course Schedule

(subject to slight modifications by the instructor)

Week	Lecture	Assessment
1	Review of Prerequisites Module 1: Equations and Inequalities	Quiz, homework, exam
2	Module 2: Functions and Relations	Quiz, homework, exam
3	Module 3: Polynomial and Rational Functions Module 4: Exponential and Logarithmic Functions	Quiz, homework, exam
4	Module 5: Exponents and Polynomials Module 6: Rational Expressions and Functions	Quiz, homework, exam
5	Module 6: Matrices, Determinants, Sequences, and Series	Quiz, homework, exam

Tentative Grading Procedures

Lecture

Assessment	Weight
Homework	20%
Quizzes	20%
Exams	60%

Grading scale:

Please note letter grades will be assigned only at the end of the trimester.

A = 90% to 100%

B = 80% - less than 90%

C = 70% - less than 80%

D = 60% - less than 70%

F = less than 60%

W = Withdrawal

Academic Integrity

Visit SCU's **Academic Integrity** page to review policies for professionalism and academic integrity.

Teaching Methods and Activities

The course will follow a linear format, meaning you will complete all of the modules in sequence. The material in each module will include a combination of readings, videos, and written and interactive assignments. You'll also complete an exam at the end of each module. You can read about each of the course components below. Each module takes about 8-10 hours to finish.

The course requires a significant time commitment from students. In the four weeks of classes, we will cover 7 chapters of the book. Not every topic will be covered in great depth, but students are expected to study each topic in detail.

Read

These sections are created on Canvas using the power points divided by sections. They improve reading productivity and provide students with better knowledge retention since they focus on each section separately.

Watch

Its content helps you gain a deeper understanding of the concepts presented in the learning modules and in the textbook. These assignments contain lecture, animation and exercise sections and feature interactive learning resources on ConnectMath.

Practice

On practice sections, you will practice the module content you've covered using interactive study tools. These interactive study tools will help you assess your progress and identify areas for improvement. Additionally, interactives give you an opportunity to review and apply information presented in your course and in the online textbook before taking exams. You have 3 attempts to finish the practice sections and your best score will be considered as your final score.

Exams

There will be 7 exams given at the end of each module. There will be questions that come directly from the textbook chapters, activities, and videos. Questions may come in the form of multiple choices, free response, or fill in the blank. These exams are all on Connect. Please pay attention to the due dates. You have 120 minutes to finish each exam. Exams are closed book.

Online Learning at SCU

MySCU is SCU's online campus portal. It includes SCU's learning management system (Canvas). It acts as a single point of access for a variety of campus information. It houses resources such as university policies, campus safety procedures, financial aid forms, class schedules, campus news, library databases, and other electronic resources for faculty, staff, and students. Incoming students receive login credentials and learn to navigate MySCU during orientation.

Your Keys to Success

Although the course requires no face-to-face meetings, it is not self-paced. To be successful in this course, you will need to log in regularly and plan ahead to manage your workload.

Self-Directed Learning

Online courses require motivation, time management, and self-discipline on the part of the learner. Creating a self-directed learning plan will help you improve your independent study skills. Creating a routine weekly study schedule and a quiet working space will help you stay on pace with the class.

Online Etiquette

Follow the professional and online etiquette guidelines below when interacting with your peers and facilitator in the online environment, including discussion boards:

- Disagree with others with respect in the form of constructive feedback.
- Support your position with academic citations from the text or academic literature.
- Write clearly and concisely and stay on topic.
- Do not simply repeat what others have said but provide new information or analysis.
- If you quote another student's post, be sure to place it in quotation marks.
- Be mindful that the written word may be misinterpreted by others without hearing your tone and in the absence of face-to-face cues.
- Avoid the use of strong or offensive language.
- Check your spelling and grammar before sending emails or posting to the discussion boards.

Best Practices for Studying Algebra

- Read the sections and watch the videos prior to do the practices in each module. Review each section after you finish reading and watching e-professors and exercises to enhance your understanding of what was covered. Take notes when you do the reading or watching exercises.
- Participate by doing the assignments on time and by asking questions either through Canvas.
- Stay on top of the assignments. Do the assigned problems as close to the time as when the topic is covered to increase the depth of your understanding of specific concepts. It will help you learn the material more efficiently and effectively.
- Do not wait until the night before it is due to start the assignment. You will get more out of it if you take the time to really learn the concepts and review the material without being rushed.
- Stay focused by finding an environment where you can study with few distractions.

University Policies

Accommodations

As a learning-centered community, Southern California University of Health Sciences recognizes that all students should be afforded the opportunity to achieve their academic and individual potential. The University recognizes and supports the standards set forth in Section 504 of the Rehabilitation Act and

the American with Disabilities Act (ADA). In accordance with its mission and federal and applicable state laws, the University is committed to making reasonable accommodations for qualified applicants for admission and enrolled students with disabilities. A student who needs accommodation(s) due to a disability should contact the Academic Support Office located in the Learning Resource Center.

Faculty and Dr./Patient Relationships

SCU faculty are highly skilled. However, per University Policy, health care is offered to students through the University Health System only. Neither preclinical nor clinical faculty can provide advice, assessment, treatment, or other elements that would be considered part of a Doctor-Patient relationship outside of a clinical setting established for that purpose.

Learning Activities

Students are expected to spend at least two hours for each lecture hour of course time per week in activities and assessments outside the classroom. Examples of activities include, but are not limited to: writing papers; reading articles or text; small group work; presentations; completing assignments; preparation for assessments; online activities and other activities that do not include direct instructor interaction and involvement.

All university policies apply to this course and all others. For full policy information please consult the university SCU Policy Manual. For a quick reference guide to the following policies: make-up examination, F-challenge examination, grade posting, results of failing grades, student support information, syllabus amendments, special needs, student conduct, and attendance, please consult the academic policies document housed on the **Online Student Services .**