## MAT 333 Abstract Algebra, Section 01, CN 40570 Fall 2022

#### Class meets MWF 11:30 AM - 12:45 PM in SBS B203.

**Instructor:** Serban Raianu, office: NSM E-108, office phone: (310) 243-3139, cell phone: (657) 204-5612;

e-mail address: <a href="mailto:sraianu@csudh.edu">sraianu</a>; <a href="mailto:http://math.csudh.edu/~sraianu">http://math.csudh.edu/~sraianu</a>;

office hours: Monday, Wednesday, Friday: 10:00 AM – 11:20 AM, or by appointment.

**Course Description:** MAT 333, Abstract Algebra, covers material from the first two chapters of the textbook: sets, groups, rings, polynomial rings, fields.

Text: Algebra I: Groups, Rings, & Arithmetic, by Serban Raianu, PDF available online at https://math.csudh.edu/~sraianu/algebrabook.html

**Objectives:** After completing MAT 333 the student should be able to: state definitions of basic concepts (e.g., congruence, groups, rings, integral domains, fields, subrings, homomorphisms, ideals); understand and use the Euclidean algorithm; understand and use modular arithmetic; state major theorems (e.g., the division algorithm, the unique factorization theorem, the remainder theorem, the factor theorem, the isomorphism theorems) and be able to identify the structures to which each theorem applies (e.g. the integers, integral domains, polynomial rings F[x] where F is a field, groups, etc.); find examples of objects that satisfy given algebraic properties (a noncommutative ring, a commutative ring but not an integral domain, etc)

**Prerequisites:** MAT 271 or equivalent with a grade of "C" or better.

Grades: Grades will be based on three full period written examinations (60% total), a comprehensive final examination (25%), and quizzes, homework and (possibly) other assignments (15%) for the remainder. The exact grading system for your section is the following:

No makeup examinations will be given. The exams are taken in class and graded on Gradescope. If you must miss an examination for a legitimate reason, discuss this, in advance, with me, and I may then substitute the relevant score from your final examination for the missing grade. Each of the **three exams** will be graded on a 0-20 scale, then the sum of the scores is denoted by E.

**Homework** will be due every week, the day before quiz days, and each homework is worth 5 points. Each week one of the problems from the homework due for that week will be selected and graded on a scale from 0 to 2. The remaining 3 points will be awarded for completeness of the homework assignment. Submitting solutions copied from the back of the book will bring little or no credit, since copying solutions will not prepare you for answering questions during the oral examinations. The average of all homework scores is denoted by H. Homework will be submitted as a pdf with your paper work on Gradescope. There is no need to match the pages with the problems when submitting the homework, see

#### https://www.youtube.com/watch?v=u-pK4GzpId0

Gradescope can be accessed from the link your Canvas course, and you can practice submitting your work on Gradescope using the assignment called Submission practice, which will remain open throughout the semester. You might be asked to explain your work on a submitted problem. Failure to provide an explanation might result in a score of zero for the entire homework assignment. No late homework will be accepted.

**15 minutes quizzes** will be given every week, and will be graded on a scale from 1 to 10. The average of the quizzes scores is denoted by Q. Each quiz will consist of one problem, similar but not necessarily identical to one of the homework problems assigned for that week. The quiz will be taken in class and graded on Gradescope. No makeup quizzes will be offered.

The final exam, will contain problems similar to problems assigned as homework throughout the semester, will be graded out of a maximum possible 25 points, then the score is denoted by F. The final exam will be taken in

class and graded on Gradescope.

Extra credit opportunities will be announced in class.

To determine your **final grade**, compute E+H+Q+F. The maximum is 100, and the grade will be given by the rule:

A: 93-100; A-: 90-92; B+: 87-89; B: 83-86; B-: 80-82

C+: 77-79; C: 73-76; C-: 70-72; D+: 67-69; D: 60-66; F: Less than 60.

You will be able to follow your progress in the class in Canvas under Grades throughout the semester.

Accommodations for Students with Disabilities: California State University, Dominguez Hills adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations for students with temporary and permanent disabilities. If you have a disability that may adversely affect your work in this class, I encourage you to register with Student disAbility Resource Center (SdRC) and to talk with me about how I can best help you. All disclosures of disabilities will be kept strictly confidential. Please note: no accommodation may be made until you register with the SdRC in WH D-180. For information call (310) 243-3660 or to use telecommunications Device for the Deaf, call (310) 243-2028.

**Academic Integrity:** The mathematics department does not tolerate cheating. Students who have questions or concerns about academic integrity should ask their professors or the counselors in the Student Development Office, or refer to the University Catalog for more information. (Look in the index under "academic integrity".)

### Tentative schedule and homework assignments

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M 8/29:
              1.1 Sets and functions: 1.1.2,1.1.6,1.1.7,1.1.8,1.1.11,1.1.12
              1.1 Sets and functions: 1.1.13,1.1.15,1.1.16,1.1.17
W 8/31:
M 9/5:
              Labor Dav
W 9/7:
              1.2 The integers: 1.2.3,1.2.4,1.2.6,1.2.9,1.2.12
              1.2 The integers: 1.2.14,1.2.16,1.2.17,1.2.18,1.2.26
M 9/12:
W 9/14:
              1.3 Equivalence relations and factor sets: 1.3.3, 1.3.5
M 9/19:
              1.3 Equivalence relations and factor sets: 1.3.9,1.3.12, 1.3.19
              1.4 Groups and morphisms of groups: 1.4.3,1.4.4,1.4.5
W 9/21:
              1.4 Groups and morphisms of groups 1.4.6,1.4.7,1.4.8,1.4.11,1.4.13
M 9/26:
W 9/28:
              Review
M 10/3:
              Exam 1
              1.5 Subgroups and normal subgroups: 1.5.3,1.5.4,1.5.6,1.5.8
W 10/5:
M 10/10:
              1.5 Subgroups and normal subgroups: 1.5.13,1.5.15
              1.6 Factor groups: 1.6.2,1.6.4
W 10/12:
               1.6 Factor groups: 1.6.16,1.6.17
M 10/17:
W 10/19:
              1.7 Finite groups and the Lagrange theorem: 1.7.3, 1.7.7, 1.7.8, 1.7.10, 1.7.11
M 10/:24
              1.7 Finite groups and the Lagrange theorem: 1.7.14,1.7.19,1.7.20,1.7.21
              2.1 Rings and morphisms of rings: 2.1.2, 2.1.4, 2.1.6, 2.1.7, 2.1.8, 2.1.13
W 10/26:
M 10/31:
              Review
W 11/2:
              Exam 2
              2.2 Subrings and ideals: 2.2.2,2.2.3,2.2.5,2.2.6
M 11/7:
W 11/9:
              2.2 Subrings and ideals: 2.2.7,2.2.8,2.2.10,2.2.12
              2.3 Factor rings: 2.3.4,2.3.6,2.3.8,2.3.10,2.3.16
M 11/14:
              2.4 Prime and maximal ideals: 2.4.2,2.4.3,2.4.5,2.4.10,2.4.12,2.4.15
W 11/16:
              2.6 Polynomial rings: 2.6.3,2.6.6,2.6.7
M 11/21:
              2.6 Polynomial rings: 2.6.9,2.6.10
W 11/23:
              2.6 Polynomial rings: 2.6.11,2.6.12
M 11/28:
W 11/30:
              Review
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Final examination: Wednesday, December 14, 11:30 AM - 1:30 PM.

M 12/5:

W 12/7:

Exam 3

Final review

# **Important Dates:**

August 29-September 16  Monday-Friday  September  September 5  Monday  Labor Day Holiday (No Classes, Campus Closed)  September 9  Friday  September 17-22  Thursday  September 22  Thursday  September 23  Friday  September 23  Friday  September 23  September 3  September 3  September 4  Friday  September 5  Monday  Late Registration and Add/Drop via MYCSUDH - fees due at time of registration and Add/Drop via MYCSUDH - fees due at time of registration and Add/Drop via MYCSUDH - fees due at time of registration and Add/Drop via MYCSUDH - fees due at time of registration and Add/Drop via MYCSUDH - fees due at time of registration and Add/Drop via MYCSUDH - fees due at time of registration and Add/Drop via MYCSUDH - fees due at time of registration and Add/Drop via MYCSUDH - fees due at time of registration and Add/Drop via MYCSUDH - fees due at time of registration and Add/Drop via MYCSUDH - fees due at time of registration and Add/Drop via MYCSUDH - fees due at time of registration and Add/Drop via MYCSUDH - fees due at time of registration and Add/Drop via MYCSUDH - fees due at time of registration via Mycsubh - fees due at time of registration via Mycsubh - fees due at time of registration via Mycsubh - fees due at time of registration via Mycsubh - fees due at time of registration via Mycsubh - fees due at time of registration via Mycsubh - fees due at time of registration via Mycsubh - fees due at time of registration via Mycsubh - fees due at time of registration via Mycsubh - fees due at time of registration via Mycsubh - fees due at time of registration via Mycsubh - fees due at time of registration via Mycsubh - fees due at time of registration via Mycsubh - fees due at time of registration of fees due at time of registration via Mycsubh - fees due at time of registration via Mycsubh - fees due at time of registration via Mycsubh - fees due at time of registration via Mycsubh - fees due at time of registration of fees due at time of registration of fees due at time of registration via Mycsubh - fees due at	August 29	Monday	Classes Begin
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December 9 Friday Last Day of Scheduled Classes	•		
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December 10-16 Saturday-Friday Final Examination	December 9	Friday	Last Day of Scheduled Classes
	December 10-16	Saturday-Friday	Final Examination