Applied Algebra

The course

This course is an introduction to the algebraic concepts of groups, rings, and fields, with an emphasis on modular arithmetic. Applications include topics in number theory and coding theory.

Textbook The required textbook is *Numbers, Groups & Codes*, second edition, by J. F. Humphreys and M. Y. Prest, Cambridge University Press, 2004, ISBN 978–0–521–54050–6.

  The course covers Chapters 1, 2, 4, and 5; and other topics if time permits.

Prerequisites The prerequisites for this course are Discrete Mathematics (either Math 220 or Math 302) and Linear Algebra (either Math 304 or Math 323).

Venue The course meets 12:00–13:35 in BLOC 160 on Monday, Tuesday, Wednesday, Thursday, and Friday.

Home page The home page for this course is `http://www.math.tamu.edu/~harold.boas/courses/433-2009b/`.

The instructor

The instructor is Dr. Harold P. Boas (email `boas@tamu.edu`, telephone 979–845–7269). The instructor holds office hours in 202 Milner Hall from 10:30 to 11:30 on Monday, Tuesday, Wednesday, Thursday, and Friday; and also by appointment.

Exams and grades

There will be a short quiz on most days. The average of the best ten quiz scores will have the same weight as one exam score.

  There will be examinations in class on June 12 (Friday of the second week of classes) and on July 1 (Wednesday of the last week of classes). The registrar has reserved July 2 for final examinations for the first summer session, but this class will *not* have a final examination on that day.

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The three grades (the two exams and the quiz average) will be averaged to determine the course grade according to the standard scale: you need an average of 90% for an A, 80% for a B, 70% for a C, and 60% for a D.

Other information

Americans with Disabilities Act
Statement from the Department of Student Life

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the office of Disability Services in Cain Hall (telephone 979–845–1637, web site `http://disability.tamu.edu/`).

Academic Integrity
Statement from the Aggie Honor System Office

The Aggie Honor Code states: "An Aggie does not lie, cheat or steal, or tolerate those who do." Information about the Honor Council Rules and Procedures may be found at the web site `http://aggiehonor.tamu.edu/`.