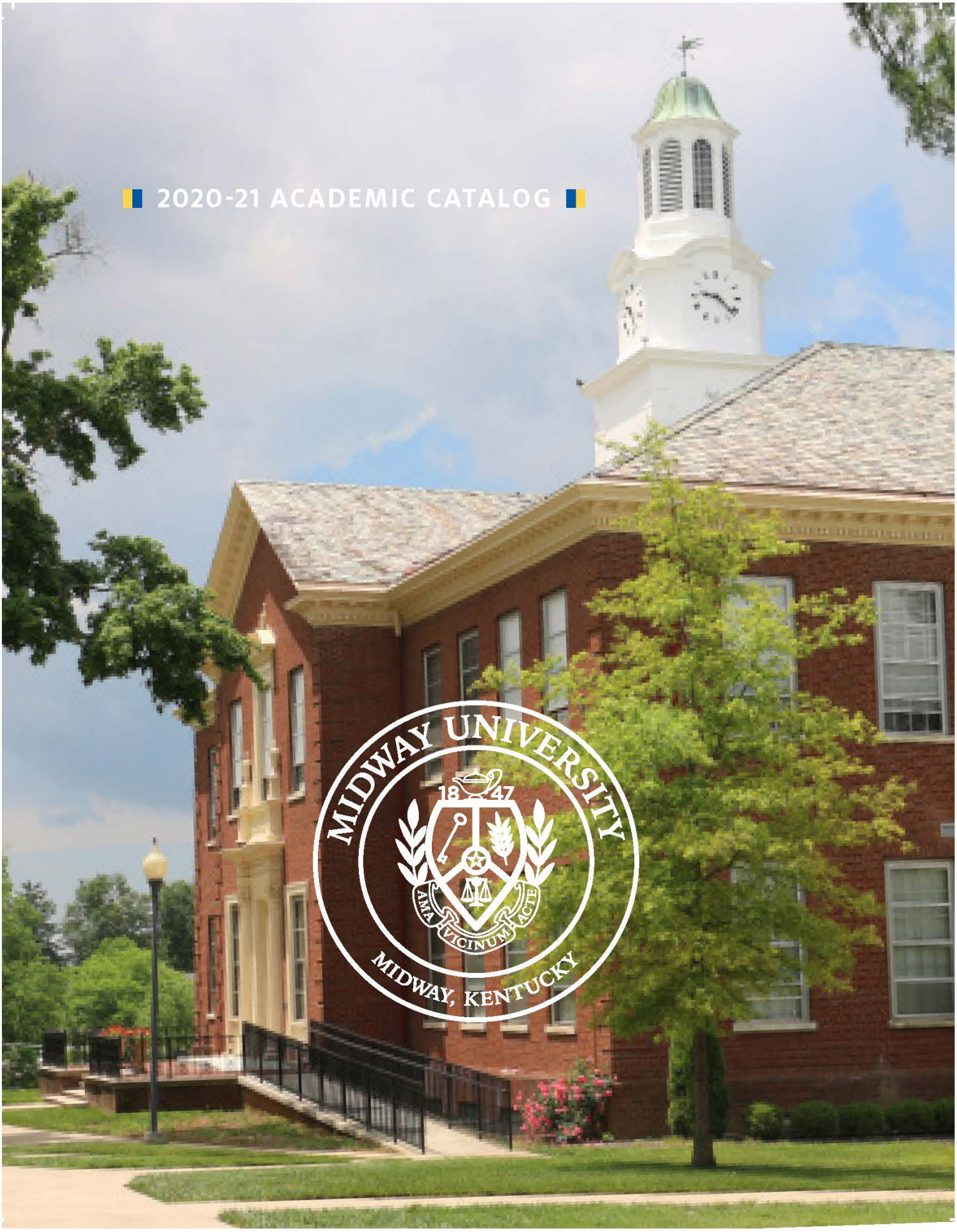
2020-21 ACADEMIC CATALOG



Midway University

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Course 2
MTH 401 - Abstract Algebra I 2

Course

MTH 401 - Abstract Algebra I

This course offers a study algebraic structures, beginning with groups. Group theory topics include permutation groups, cyclic groups, subgroups, normal subgroups, co-sets, quotient groups, group homomorphisms, Cayley's and Sylow's Theorems. The course includes an introduction to the algebraic structure of rings, including the topics of subrings, ideals, ring homomorphisms, and polynomial rings. This course emphasizes proof and connecting the abstract back to the concrete. Prerequisite: MTH 305 with a minimum grade of C.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Prerequisites:

- MTH 305 - Mathematical Reasoning and Proofs

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