

LECTURERS AND TITLES FOR 1975-76 SERIES

Alexander Abian

Iowa State University, Ames, Iowa 50010

Why Mathematical Logic Is Needed in Mathematics
Set Theory As a Foundation for Mathematics
The Importance of Boolean Algebras in Mathematics
(DOW) Thursday and Friday
(Friday Preferred)

Level I or II
Level I or II
Level I

Herbert W. Hethcote

University of Iowa, Iowa City, Iowa 52242

Mathematical Models for Infectious Diseases
(DOW) Any day

Level I or II

Tom Price

University of Iowa, Iowa City, Iowa 52242

Knots in 3-space, pictures, polynomials & groups
Abstract Algebra in Topology
Topology: From rubber sheet geometry to models
for the heart
(DOW) Tuesday A.M.
Any day P.M.

Level I or II
Level I
Level I or II

D. E. Sanderson

Iowa State University, Ames, Iowa 50010

Mathematical Nuggets in the Classroom Sluice
Advanced Euclidean topics from an Elementary
Viewpoint
(DOW) Any day

Level I
Level I or II

K. D. Stroyan

University of Iowa, Iowa City, Iowa 52242

Infinitesimal analysis of curves & surfaces
(using infinitesimals of Robinson's non-
standard analysis)
(DOW) Tuesday
P.M. other days

Level I

Richard J. Tondra

Iowa State University, Ames, Iowa 50010

Linear Algebra - Its control role in Mathematics

Level I

The Winding Function $\exp(t) = \cos(t) + i \sin(t)$ -
Pursuing Its Abstraction

Level I

(DOW) Monday P.M. or Friday P.M.

Henry M. Walker

Grinnell College, Grinnell, Iowa 50112

Math for Spies - Cryptanalysis before 1920

Level II

Calculus in Probability

Level II

An Introduction to Algebraic Topology

Level I

Also, other topics in Algebraic Topology

(DOW) Weekends: first choice

Mid Semester break:

Second choice

Wednesday afternoons:

Third choice

J. S. Wasileski

Iowa Wesleyan College, Mt. Pleasant, Iowa 52641

Compact Spaces and Compactifications

Level I

Cowlicks and Other Oddities

Level II

Mathematics and Biology

Level II

(DOW) Tuesdays or Thursdays
P.M.

Stephen J. Wilson

Iowa State University, Ames, Iowa 50010

An Expurgated History of Pi

Level II