

IBL Resources: Course Notes

David M. Clark
SUNY, New Paltz

June, 2011

Legacy of R. L. Moore Conference

Beginning IBL instructors need to

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- learn to plan and design an IBL course and

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- learn to plan and design an IBL course and
- learn to teach an IBL course.

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- learn to teach an IBL course, and then

Beginning IBL instructors need to

- learn to teach an IBL course, and then
- learn to plan and design an IBL course.

MISSION:

Plan, design, support and disseminate a fully IBL course that will be useful to beginning IBL instructors and to a broad range of students.

EAF Geometry Project

MISSION:

Plan, design, support and disseminate a fully IBL **axiomatic geometry** course that will be useful to beginning IBL instructors and to a broad range of students.

Euclidean Geometry: A Guided Inquiry Approach

David M. Clark

June, 2008

Educational Advancement Foundation

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Since June 2008, used in

- High School (3 schools, 8 classes)
- Undergraduate (7 schools)
 - 12 Major classes
 - 6 General Ed classes
- Graduate (1 school, 1 class)

Journal of Inquiry-Based Learning in Mathematics

www.jiblm.org

MISSION:

Publish a growing library of university level course notes that are freely downloadable, professionally refereed, and classroom tested.

The Journal of Inquiry-Based Learning in Mathematics

⟨www.jiblm.org⟩

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CURRENT HOLDINGS (21):

- (1) Calculus II
- (1) Calculus III
- (2) Calculus (theory)
- (1) Complex Analysis
- (3) Foundations
- (3) Geometry
- (1) Graph Theory
- (1) Group Theory
- (1) Linear Algebra
- (1) Number Theory
- (1) Probability and Statistics
- (3) Real Analysis
- (1) Topology
- (1) Trigonometry

IBL Texts and Notes:

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- *Journal of Inquiry-Based Learning in Mathematics*,
(www.jiblm.org).

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- *Journal of Inquiry-Based Learning in Mathematics*, www.jiblm.org.
- *Euclidean Geometry: A Guided Inquiry Approach*, Clark, (2008); see 13th Legacy of RLM Conference.

IBL Texts and Notes:

- *Journal of Inquiry-Based Learning in Mathematics*, www.jiblm.org.
- *Euclidean Geometry: A Guided Inquiry Approach*, Clark, (2008); see 13th Legacy of RLM Conference.
- *Linear Optimization*, Hurlbert, (2010) Springer.
- *Number Theory Through Inquiry*, Marshal, Odell, Starbird, (2007) MAA.
- *Chapter Zero*, Schumacher, (2001) Addison-Wesley.
- *The Shape of Space*, Weeks, (2002) Marcel Dekker.
- *Creative Mathematics*, Wall, (2006) MAA.