



ST JOHN'S
College

GRADUATE INSTITUTE

ONLINE

Mathematics
&
Natural Science

LOW-RESIDENCY MATH & NATURAL SCIENCE SEMINAR READING LIST – SANTA FE FALL /SPRING

Monday 8:00-10:00 PM Mountain Time

The reading assignment for the first seminar should be completed before the first class meeting.

WEEK ONE

Lucretius: *On the Nature of Things*, Book I; II; III 1 – 580

WEEK TWO

On the Nature of Things, Book III 581 – end; IV; V 1 – 235,
771 – end; VI 1 – 95, 1090 – end

WEEK THREE

Plato: *Timaeus*, to 58c

Ptolemy: “The System of the World” (Photocopies are
available in the bookstore.)

WEEK FOUR

Aristotle: *Physics*, Book I 184a9 – 184b14,
189b30 – 192b7; II 192b8 – 195b30

WEEK FIVE

Physics, Book II 195b31 – 200b11; III 200b12 – 202b29

WEEK SIX

Physics, Book III 202b30 – 208a25; IV 208a28 – 213a10

WEEK SEVEN

Physics, Book IV 213a11 – 224a17

WEEK EIGHT

Physics, Book VIII 250b11 – 260a19, 265a13 – 267b27

WEEK NINE

Ptolemy: *Almagest*, Book I 1 – 8; Book III 3 (up to and
including two hypotheses figures)

WEEK TEN

Galileo: *Dialogue on the Two Chief World Systems*, “Author’s
Dedication,” “To the Reader,” & “The First Day”
(through page 68 in the University of California edition,
through page 78 in the Modern Library edition)

WEEK ELEVEN

Dialogue on the Two Chief World Systems, “The First Day”
& “The Second Day”

(University of California pages 68 – 131, Modern Library
pages 78 – top of 153)

WEEK TWELVE

Dialogue on the Two Chief World Systems, “The Second Day”

(University of California pages 131 – 188, Modern
Library pages 153 – top of 219)

WEEK THIRTEEN

Darwin: *On the Origin of Species*, “An Historical Sketch”,
Introduction, and Chapters I – III

(Make sure the edition you acquire uses the text of
Darwin’s First Edition, e.g. the Penguin.)

WEEK FOURTEEN

On the Origin of Species, Chapters IV & XIV

WEEK FIFTEEN

Freud: “Note on a Case of Obsessional Neurosis [the Rat
Man]” in *Three Case Histories*

WEEK SIXTEEN

Freud: “A Note on the Unconscious in Psychoanalysis,”
“On Narcissism: An Introduction” & “Mourning and
Melancholia” in *General Psychological Theory*



ST JOHN'S
College

GRADUATE INSTITUTE

ONLINE

Mathematics
& Natural Science

LOW-RESIDENCY MATH & NATURAL SCIENCE TUTORIAL READING LIST – SANTA FE FALL / SPRING
Monday and Thursday 5:45-7:00 PM Mountain Time

The reading assignment for the first tutorial should be completed before the first class meeting.

FIRST ASSIGNMENT:

Euclid's *Elements*, Book I: Definitions, Postulates, and Common Notions

(Future daily assignments will be made by the tutor.)

WEEKS ONE-EIGHT (16 MEETINGS)

Euclid: *Elements*, Book I

WEEKS NINE-SIXTEEN (16 MEETINGS)

Lobachevski: *The Theory of Parallels*, selections

(Photocopies are available in the bookstore; it is also included in final appendix of Bonola's *Non-Euclidean Geometry*, Dover.)