Mathematics & Natural Science Seminar Reading List

Note: When considering which editions or translations to use, you may wish to consult the notebook kept in the College bookstore, with tutors’ comments on different editions and translations of program texts. In any case, wherever possible, use editions with line numbers.

1. Lucretius  *On the Nature of Things*  I-III
2. Lucretius  *On the Nature of Things*  IV-VI
3. Plato  *Timaeus*  beginning-57d
4. Aristotle*  *Physics*  Book I, Chapter 1 (184a10-184b14); Book II (192b9-200b7)
5. Aristotle  *Physics*  Book III, Chapters 1-3 (200b8-202b27); Book IV, Chapters 10-14 (217b29-224a17)
6. Aristotle  *Physics*  Book IV, Chapters 1-5 (208a27-213a10), 8 (214b11-216b20); Book III, Chapters 4-6 (202b30-207a31)
7. Aristotle  *Physics*  Book VIII, Chapters 1 (250b9-252b7), 4-7 (254b7-261b26), 9-10 (265a13-267b26)
8. Bacon  *The New Organon*  “The Great Instauration” and Preface  (Open Court, pp. 3-41; Library of Liberal Arts, pp. 3-37)  Book I, Aphorisms 1-70
9. Bacon  *The New Organon*  Book I, Aphorisms 73-75, 80-84, 88, 92-106, 115-130  Book II, Aphorisms 1-10, 11 (first paragraph), 12 (first two paragraphs)  13 (first paragraph), 14-20, 52
10. Descartes  *Discourse on Method*  I-IV
11. Descartes  *Discourse on Method*  V-VI
12. Newton  *Principia*  Preface (to the 1st Edition); Definitions; Scholium (on Space and Time); and Laws of Motion (up to Corollaries)  (that is, Donahue Xerox, pp. 3-31)
14. Darwin  *The Origin of Species*  IV, XIV

* The numbers in parentheses for Aristotle’s *Physics* readings are marginal line numbers derived from Immanuel Bekker’s Berlin Edition; they are called “Bekker numbers” and appear in many editions.
** These lectures can be found in a volume titled *Jung contra Freud*, excerpted from Volume 4, Part 2 of the Princeton edition of the Collected Works of C.G. Jung.
Mathematics & Natural Science Tutorial Reading List

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1. Euclid *Elements* Book I, Definitions 1-10
2. Euclid *Elements* Book I, Definitions 11-23
3. Euclid *Elements* Book I, Postulates and Common Notions
4. Euclid *Elements* Book I, Propositions 1, 2; construction of isosceles and scalene triangles
5. Euclid *Elements* Book I, Propositions 3-5
6. Euclid *Elements* Book I, Propositions 6-9
7. Euclid *Elements* Book I, Propositions 10-12
8. Euclid *Elements* Book I, Propositions 13-16
9. Euclid *Elements* Book I, Propositions 17-20
10. Euclid *Elements* Book I, Propositions 21-24
11. Euclid *Elements* Book I, Propositions 25-27
12. Euclid *Elements* Book I, Propositions 28-30
13. Euclid *Elements* Book I, Propositions 31-34
15. Euclid *Elements* Book I, Propositions 40-43
16. Euclid *Elements* Book I, Propositions 44-46
17. Euclid *Elements* Book I, Propositions 47, 48
18. Lobachevski *Theory of Parallels* Definitions 1-10
19. Lobachevski *Theory of Parallels* Proposition 16
20. Lobachevski *Theory of Parallels* Proposition 16
21. Lobachevski *Theory of Parallels* Propositions 17, 18
22. Lobachevski *Theory of Parallels* Propositions 18, 19
23. Lobachevski *Theory of Parallels* Propositions 19, 20
24. Lobachevski *Theory of Parallels* Propositions 21, 22
25. Lobachevski *Theory of Parallels* Propositions 23, 24
26. Classes 26-32 are on selections from the Non-Euclidean Geometry Manual
27.
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29.
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31.
32.

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