BO1 History of Mathematics Lecture I Introduction Part 2: Admin

MT 2021 Week 1

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Summary

Part 1

- The nature of history
- How can we organise/break down the history of mathematics?
- Rough overview of the course

Part 2

► Arrangements: lectures, classes, the nature of the course

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Some advice on reading and taking notes

Part 3

Napier's Logarithms

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Course webpage: https://courses.maths.ox.ac.uk/course/view.php?id=89

Administrative matters, MT

- Lectures: to be released online week by week (lecture slides to be posted online week by week)
- Classes: to be held in person (or online if necessary) on Fridays in weeks 2, 4, 6, 8
- Work: a short essay (1,000 words) and preparation of a discussion topic for each class. Essays to be submitted by Wednesday 9am [DETAILS TO BE CONFIRMED]
- Sheets: details of weekly reading, and of essay and discussion topics, can be found on course webpage
- Assessment: written paper in TT 2022

Administrative matters, HT

Topic: Communicating the Differential Calculus in 19th-century Britain

- ► A reading course with 'seminars' in weeks 1–8
- In-depth study of original works, including books, journal or encyclopaedia articles, and question and answer sections of periodicals
- Three essays of 2,000 words each, and preparation of a discussion topic for each class
- Assessment: 3,000-word essay, topic revealed in week 7, to be submitted by 12noon on Monday, week 10

Advice on taking notes and writing essays

See the notes on the O1 course webpage

- Pay particular attention to the sections on
 - citing sources,
 - bibliographies, and
 - plagiarism
- The importance of clear and accurate citations will be stressed throughout the course — these serve the same purpose as proofs in mathematical arguments

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Taking notes

From reading:

- background reading is for information, not examination: it is important, but don't spend too long on it
- read the material (at least) twice
 - on the first reading, try to get a general feel for the material, its meaning and significance
 - on the second, take notes (see the online guidance)

From lectures:

- Don't try to take down every detail
- Instead, read ahead, listen, think, prepare questions to ask later

The lectures and the reading will cover some of the same ground but are designed to be complementary

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Recommended reading: the main texts

Jacqueline Stedall, *Mathematics emerging: a sourcebook* 1540–1900, Oxford University Press, 2008 [available via SOLO]

and either

Victor Katz, *The history of mathematics: brief version*, Pearson, 2003

or

Victor Katz, A history of mathematics: an introduction, 3rd edition, Addison-Wesley, 2009

(College libraries may have earlier editions of the latter, but these do not differ significantly in content as far as this course is concerned.)

Recommended reading: other useful books

Jacqueline Stedall, *The history of mathematics: a very short introduction*, Oxford University Press, 2012 [available via SOLO]

Benjamin Wardhaugh, *How to read historical mathematics*, Princeton University Press, 2010 [available via SOLO]

John Fauvel and Jeremy Gray, *The history of mathematics: a reader*, Macmillan/Open University, 1987

June Barrow-Green, Jeremy Gray and Robin Wilson, *The history of mathematics: a source-based approach*, vol. 1, MAA Press, 2019

Further books (usually on specific topics) will be cited throughout the course

Recommended reading: other useful resources

Some biographical resources:

(Complete) Dictionary of Scientific Biography (DSB): available via SOLO

Oxford Dictionary of National Biography (ODNB): available via SOLO

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There are many other general histories of mathematics available — you are encouraged to read widely, but please read critically