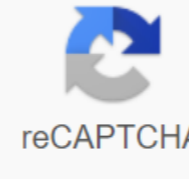




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There are no necessary books for this course, and the lectures are independent and based on a wide range of source materials. However, excellent non-technical introductions to astrobiology are given in life in the universe by Lewis Dartnell (Oneworld, 2007) and Astrobiology: A Very Short Introduction by David Catling (Oxford University Press, 2013). It would be well worth everyone taking this course to make an effort to read at least one of these two short books. A more detailed introductory textbook on astrobiology, which covers almost all of the course material, is The Introduction to Astrobiology, a third edition edited by David Rothery, Ian Gilmore and Mark Sefton (Cambridge University Press, 2018). An excellent introduction to the evolution of earth as a habitable planet was given by Tim Lenton and Andrew Watson in the revolutions that made the Earth (Oxford University Press, 2011). I think everyone can be astrobiologists will benefit from reading this book! A very comprehensive and perfect summary of the entire field of astrobiology can be found in the Astrobiology Handbook edited by Vera Kolb (CRC Press, 2019). It is a very large and expensive book, but the Birkbeck Library has a reference copy. Nick Lane's Book of Life Climbing: Ten Great Inventions of Evolution (Profile Books, 2009) and a vital question: Why is life the way it is? (Profile Books, 2015) give an excellent summary of current thinking about the origins and early evolution of life, as does Franklin Harold's book In Search of Cell History (University of Chicago Press, 2014). A critical study of paleontological evidence of early life on Earth, with a detailed discussion of methods and contradictions in this area, was given by David Vacie in Early Life on Earth: A Practical Guide (Springer, 2009). For background information on extremophiles, take a look at life on the borders of David Wharton (CUP, 2002). For an excellent guide specifically for the biology of hydrothermal vents, I can strongly recommend the Ecology of Deep-Sea Hydrothermal Vents by Cindy Lee Van Dover, Princeton University Press (2000). Students wishing to get a broad overview of biochemistry probably still can't do anything better than the chemistry of Stephen Rose's life (New Edition, Penguin, 1999). The Internet is a good source for getting information and stunning photos - check out helpful links. □, the Wikimedia Foundation's book-providing service has been withdrawn. Please upload your Wikipedia book to one of the external rendering services. You can still create and edit the design of the book with the help of the book's creator and upload it to an external rendering service: MediaWiki2LaTeX provides the softcopy PDF service. Uniquely, it remains under active support and can be used online or installed locally. 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How common is this in other parts of the universe? This textbook, written and edited by planetary scientists and astrobiologists, is an introduction to the origin and nature of life, the habitable environment in our solar system and the methods most successfully used to discover and characterize exoplanets. This third edition has been carefully revised to cover recent developments in this area. Updated topics include the origin of water on Earth, exploration of the habitable environment on Mars, Europe and Enceladus, and growing discoveries in exoplanet systems. Ideal for introductory courses on the subject, the tutorial is also well suited for self-study. It highlights important concepts and techniques in boxed summaries, with questions and exercises throughout the text, with complete solutions. Internet resources posted www.cambridge.org/features/planets include selected numbers from the book, self-assessment questions, and tutoring assignments. 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