

Self-paced Study Guide: Study Session 1 (Self Study)

The following items serve as a review for the comprehension questions in the discussion.

- 1) What is biology?
- 2) What are the characteristics of the shared by all living things?
- 3) Why is evolution the unifying theme in biology? (Doesn't explain the unity and diversity of life)
- 4) What are the three domains of life? Which cells are prokaryotic? Which cells are eukaryotic? What is the difference between prokaryotic and eukaryotic organisms? What are the four main groups of eukaryotic organisms that were covered this semester? (i.e., the three eukaryotic kingdoms plus the group that does not belong to a given kingdom) (One exception at least)
- 5) Beginning with the most universal (broad) and highest level of classification and working toward the most inclusive (narrowest and most specific level) of classification, complete the following sentence:

Domain: Bacteria Eukarya Eukarya Eukarya Eukarya Eukarya Eukarya Eukarya

- 6) What are the four major categories of biological macromolecules? The main category of macromolecules = what are the building blocks, and what are the bonds that join the building blocks together (what? It gives a specific macromolecule, for what is identify the category for which it belongs (for example, what category, biologically, having an amino? carbohydrate? lipid and what? bond structure? macromolecular structure? what with? without the following table for help)

Biological Macromolecule	Building Block	Monomer Bond (Building Block)	Type of Bond	Example(s)

What all categories will be filled in for each type of biological macromolecule:

- 1) What categories of amino acid essential for life? (What is living things) and what primarily the source (give examples that those mentioned in class)
- 2) What are the four main types of nucleic acids? What is the genetic code? What are the main two cellular bases? (what? It gives a 4" macromolecule, for what is identify the nucleic acid)
- 3) What is the main bond, biologically, and all the that join together all of the macromolecules of living things?
- 4) What are the important of the cell membrane?

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Donald V. McCain



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Creating Training Courses (When You're Not a Trainer) Donald V. McCain, 1999 Will enable users to identify and apply concepts of adult training design develop and deliver a short course or workshop develop content and materials to meet customers needs present material effectively set up a classroom to maximize interaction and learning select appropriate media for instruction facilitate the training session professionally and evaluate that learning has taken place Essentials of Online Course Design Marjorie Vai, Kristen Sosulski, 2011-03-15 In spite of the proliferation of online learning in higher education creating online courses can still evoke a good deal of frustration negativity and wariness in those who need to create them Essentials of Online Course Design takes a fresh thoughtfully designed step by step approach to online course development At its core is a set of standards that are based on best practices in the field of online learning and teaching Pedagogical organizational and visual design principles are presented and modeled throughout the book and users will quickly learn from the guide s hands on approach The course design process begins with the elements of a classroom syllabus which after a series of guided steps easily evolve into an online course outline The guide s key features include a practical approach informed by theory clean interior design that offers straightforward guidance from page one clear and jargon free language examples screen shots and illustrations to clarify and support the text a Companion Website with examples adaptable templates interactive learning features and online resources a checklist of online course design standards that readers can use to self evaluate Essentials of Online Course Design serves as a best practice model for designing online courses After reading this book readers will find that preparing for online teaching is contrary to popular belief a satisfying and engaging experience The core issue is simply good design pedagogical organizational and visual

Designing and Teaching Undergraduate Capstone Courses Robert C. Hauhart, Jon E. Grahe, 2014-12-02 Enrich your students and the institution with a high impact practice Designing and Teaching Undergraduate Capstone Courses is a practical research backed guide to creating a course that is valuable for both the student and the school The book covers the design administration and teaching of capstone courses throughout the undergraduate curriculum guiding departments seeking to add a capstone course and allowing those who have one to compare it to others in the discipline The ideas presented in the book are supported by regional and national surveys that help the reader understand what is common what is exceptional what works and what doesn't within capstone courses The authors also provide additional information specific to different departments across the curriculum including STEM social sciences humanities fine arts education and professional programs Identified as a high impact practice by the National Survey of Student Engagement NSSE and the Association of American Colleges and Universities LEAP initiative capstone courses culminate a student's final college years in a project that integrates and applies what they've learned The project takes the form of a research paper a performance a portfolio or an exhibit and is intended to showcase the student's very best work as a graduating senior This book is a guide to creating for

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The Theory and Principles of Creating Effective Training Courses Sarah

Cordiner, 2017-01-01 It is no secret that the online learning industry is booming But with a mass influx of course creators and marketers jumping into the educational gold rush to make money the critical components of developing quality and effective training are being lost Anyone can create and sell online courses to a global marketplace today at minimal expense and from their own spare rooms which is a great thing for everyone However if you aspire to create transformational online or face to face training programs that engage and enrich your learners it is vital that you design and develop your programs with the fundamental theory and principles of adult learning and course creation in mind Training that does not satisfy your learners or follow quality educational practices will attract negative reviews a bad reputation and refund requests something that no course creator or edupreneur wants to face With the learning industry becoming a rapidly more competitive field survival in this lucrative market is about creating remarkable training that has the learner experience at its core This book has been especially designed by multiple award winning qualified education professional Sarah Cordiner for the modern day quality conscious course creator edupreneur and training manager who cares about their learner experience It is for those who want to plan prepare and deliver transformational training that changes the lives of those that they teach By presenting timeless theories principles frameworks processes and practices for designing developing and delivering highly effective training programs this book will help you create learning that will positively impact your learners and your business

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curriculum including STEM social sciences humanities fine arts education and professional programs Identified as a high impact practice by the National Survey of Student Engagement NSSE and the Association of American Colleges and Universities LEAP initiative capstone courses culminate a student's final college years in a project that integrates and applies what they've learned The project takes the form of a research paper a performance a portfolio or an exhibit and is intended to showcase the student's very best work as a graduating senior This book is a guide to creating for your school or department a capstone course that ties together undergraduate learning in a way that enriches the student and adds value to the college experience Understand what makes capstone courses valuable for graduating students Discover the factors that make a capstone course effective and compare existing programs both within academic disciplines and across institutions Learn administrative and pedagogical techniques that increase the course's success Examine discipline specific considerations for design administration and instruction Capstones are generally offered in departmental programs but are becoming increasingly common in general education as well Faculty and administrators looking to add a capstone course or revive an existing one need to understand what constitutes an effective program Designing and Teaching Undergraduate Capstone Courses provides an easily digested summary of existing research and offers expert guidance on making your capstone course successful

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