

## **One Year Program**

**Semester 1:** Summer/Fall to January – Lecture (Online) + HW Assignments

Semester 2: February to May – Review (Online) + 13 AP Biology Exams

<u>3 Hours Exam (90 Minutes: 60 Multiple choice, 90 Minutes: 6 Free Responses)</u>

### TABEL OF CONTENTS

Unit 1: Chemistry of Life & Macromolecules 8-11%

Unit 2: Cell Structure and Function and Membrane 10-13%

Unit 3: Cellular Energetics, Enzymes, Cellular Respiration & Photosynthesis 12-16%

Unit 4: Cell Communication and Cell Cycle & Signal Transduction 10-15%

Unit 5: Heredity, Genetics & Chromosomal Inheritance 8-11%

Unit 6: Gene Expression and Regulation, Biotechnology 12-16%

Unit 7: Natural Selection & Mechanism of evolution 13-20%

Unit 8: Ecology 10-15%

Unit 9: Laboratory Analysis focuses on 6 Keys Skills over 13 Labs.

Skill 1: Interpreting and Evaluating Experiment Skill 2: Interpreting and Analyzing Experimenta Skill 3: Scientific Investigations and making Clai Skill 4: Conceptual Analysis Skill 5: Analyze Model or Visual Representation Skill 6: Analyze Data	Il Results with Graphing ims
Lab 1: Artificial Selection Lab 2: Hardy Weinberg Equilibrium Modeling Lab 3: DNA Sequences & Evolution Lab 4: Diffusion & Osmosis Lab 5: Photosynthesis	Lab 7: Cell Division: Mitosis & Meiosis Lab 8: Biotechnology: Bacterial Transformation Lab 9: Biotechnology: Restriction Enzyme Analysis Lab 10: Energy Dynamics Lab 11: Transpiration Lab 12: Fruit Fly Behavior
Lab 6: Cellular Respiration	Lab 13: Enzyme Activity



# Daniel Lee

He has been teaching AP Biology, AP Chemistry, AP Physics, and all levels of math since 1998. Daniel is a top honor graduate from UCLA in Biochemistry with 4 years of laboratory and clinical research experience.







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# 日 尼 爾 學 院 SATPROFESSIONALS AP & SAT II Scores Results

30年教學經驗, AP及SAT權威

#### **AP BIOLOGY**

Jonathan H.	5
Renee C.	5
Wenbo D.	5
K.Z	5
Jolynn Z.	5
Michelle L.	5
Visshwam D.	5
Alan W.	4
Chang C.	4
Jeremy L.	4
Jesse D.	4
Major Y.	4
Sarah L.	4
Sherlene S.	4
Vera W.	4

### **AP CHEMISTRY**

Anthony H.	5
Rachel Jiang	5
Sean Chang	5
Derek W.	5
Evelyn L.	5
Jasen C.	5
Justin J.	5
Kevin H.	5
Priscilla C.	5
Sharon T.	5
lan L.	4
Lilliana R.	4
Tiffany H.	4
William W.	4

#### **SAT II PHYSICS**

Anthony M.	800
Stephan C.	800
Johnny Y.	790

#### Laura T. 5 5 Sean R. Sean C. 5 Chang C. 4 Jessica G. 4 Marco C. 4 Sean C. 4 Steven W. 4 Marco C. 4 Sean C. 4

**AP PHYSICS** 

#### SAT II BIOLOGY Darren H. 800 Jolynn Z. 800 Eileen Z. 800 Patrick L. 800 Renee C. 800 Richard G. 790 Amanda R. 780 Kevin Z. 770 K.Z 770 Chan C. 750 700 Megan S.

### SAT II CHEMISTRY

Helen S.	800
Jasen C.	800
Justin J.	800
Richard G.	800
S. M.	800
Sean C.	800
lan L.	790
Nathan L.	790
Kristopher C.	770
William W.	710



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