

## DENTAL BIOCHEMISTRY (BIOC 5013) - FALL, 2014

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Course website: <http://dentalbioc.uthscsa.edu>

For all classes and exams, pay attention to both time and room. The time and room both vary.

Thu. July 31 10:00-10:50 AM Orientation in Room 2.424T  
 Thu. July 31 1:00-2:50 PM Exemption Exam in Room 2.424T (optional)

### Final Version 5-12-14

<u>Day</u>	<u>Date</u>	<u>Time: Room</u>	<u>Lec./Conf.</u>	<u>Topic</u>
Wed.	Aug. 6	1:00-1:50 PM: 2.424T 2:00-2:50 PM: 2.424T	L1 (PS) L2 (SEH)	Introduction & Cell Biology (Ch. 1) Genetics, Genomics (NIS)
Thu.	Aug 7	10-10:50 PM: 2.424T 11-11:50 PM: 2.424T	L3 (PS) L4 (PS)	Carbohydrates (Ch. 2) Carbohydrates (Ch. 2)
Wed.	Aug. 13	1:00-1:50 PM: 2.424T 2:00-2:50 PM: 2.424T	C1 L5 (PS)	L1-L4 Buffers, pH (Ch.3)
Thu.	Aug. 14	10-10:50 AM: 2.424T 11-11:50 AM: 2.424T	L6 (PS) L7 (PS)	Buffers, Caries (Ch. 3) Amino Acids (Ch. 4)
Wed.	Aug. 20	1:00-1:50 PM: 2.424T 2:00-2:50 PM: 2.424T	C2 L8 (PS)	L5-L7 Proteins (Ch. 5)
Thu.	Aug. 21	10-10:50 AM: 2.424T 11-11:50 AM: 2.424T	L9 (PS) L10 (PFF)	Hemoglobin and Myoglobin Enzymes (Ch. 6)
Tu.	Aug. 26	1:00-1:50 PM: 2.424T 2:00-2:50 PM: 2.424T	C3 L11 (PFF)	L8-L10 Enzymes (Ch. 6)
Thu.	Aug. 28	10-10:50 AM: 2.424T 11-11:50 AM: 2.424T	L12 (PFF) L13 (PS)	Enzymes (Ch. 6) DNA Structure & Synthesis (Ch. 11)
Tu.	Sept. 2	1:00-1:50 PM: 2.424T 2:00-2:50 PM: 2.424T	L14 L15 (PS)	Clinical Correlation Lecture-Hemostasis: Dr. Ellis DNA Structure & Synthesis (Ch. 11)
Thu.	Sept. 4	10-10:50 AM: 2.424T 11-11:50 AM: 2.424T	C4 L16 (YS)	L11-L15 Transcription and the Genetic code (Ch. 12)
Tu.	Sept. 9	1:00-1:50 PM: 2.424T 2:00-2:50 PM: 2.424T	L17 (YS) L18 (YS)	Protein Synthesis and Secretion (Ch. 13) Inflammation, Clotting, Wound Healing (Ch. 10)

Thu.	Sept.11	10-10:50 AM: 2.424T 11-11:50 AM: 2.424T	C5 L19 (YS)	L16-L18 Immunobiology and Immunoglobulins
Wed.	Sept. 17	1:00-2:50 PM: 2.424T	C6	Comprehensive for Exam #1 (PS, SEH, PFF, YS)
Thu.	Sept. 18	8:00-9:50 AM: 3.102B Lec. Hall		<b>EXAM #1: L1-L19</b>
Wed.	Sept. 24	1:00-1:50 PM: 2.424T 2:00-2:50 PM: 2.424T	L20 (YS) L21 (APH)	Immunobiology and Immunoglobulins Digestion (Ch. 14)
Thu.	Sept. 25	10-10:50 AM: 2.424T 11-11:50 AM: 2.424T	L22 (APH) L23 (APH)	Concepts of Metabolism Ch. 29) Glycolysis (Ch. 15)
Wed.	Oct. 1	1:00-1:50 PM: 2.424T 2:00-2:50 PM: 2.424T	C7 L24 (APH)	L20-L23 Citric Acid Cycle (Ch. 16)
Thu.	Oct. 2	10-10:50 AM: 2.424T 11-11:50 AM: 2.424T	L25 (APH) L26 (APH)	Oxidative Phosphorylation (Ch. 16) Pentose Phosphate Pathway (Ch. 17)
Wed.	Oct. 8	1:00-1:50 PM: 4.434T 2:00-2:50 PM: 4.434T	L27 (APH) C8	Gluconeogenesis (Ch. 18) L24-L27
Wed.	Oct. 15	1:00-1:50 PM: 2.424T 2:00-2:50 PM: 2.424T	L28 (APH) L29 (PFF)	Glycogen Metabolism (Ch. 19) Amino Acid Metabolism, Urea Cycle (Ch. 20)
Thu.	Oct. 16	10-10:50 AM: 2.424T 11-11:50 AM: 2.424T	L30 (PFF) L31 (YS)	Special Fates of Amino Acids (Ch. 21) Biosynthesis of Nucleotides (Ch. 22)
Wed.	Oct. 22	1:00-2:50 PM: 2.424T	C9	L20-L31 for Exam #2
Thu.	Oct. 23	10-10:50 AM: 2.424T 11-11:50 AM: 2.424T	L32 (SW) L33 (SW)	Lipids: Structure, Function & Chemistry (Ch. 23) Metabolism of Lipids (Ch. 24) + Brief Review
Wed.	Oct. 29	1:00-2:50 PM: 3.104A Pestana Lec. Hall		<b>Exam #2: L20-L33</b>
Thu.	Oct. 30	10-10:50 AM: 2.424T 11-11:50 AM: 2.424T	L34 (SW) L35 (SW)	Metabolism of Lipids (Ch. 24) Membranes and Lipoproteins (Ch. 26)
Wed.	Nov. 5	1:00-1:50 PM: 2.424T 2:00-2:50 PM: 2.424T	L36 (PS) L37 (PS)	Homeostasis and Hormones (Ch. 27) Homeostasis and Hormones (Ch. 27)
Thu.	Nov. 6	10-10:50AM: 2.424T 11-11:50AM: 2.424T	C10 L38 (PS)	L32-L37 Taste (Ch. 30)
Wed.	Nov. 12	10-10:50 AM: 2.424T 11-11:50 AM: 2.424T	L39 (SEH) L40 (SEH)	Composition of Bone (Ch. 28) Cells of Bone (Ch. 32)
Thu.	Nov. 13	10-10:50 AM: 2.424T 11-11:50 AM: 2.424T	C11 L41 (SEH)	L38-L40 Bone Resorption, Formation (Ch. 33-34)
Fri.	Nov. 14	10-10:50 AM: 2.424T 11-11:50 AM: 2.424T	L42 (YPC) L43 (YPC)	Comp. of Dental Mineralized Tissues (Ch. 36) Mineralization of Enamel (Ch. 36)

Wed.	Nov. 19	1:00-1:50 PM: 2.424T 2:00-2:50 PM: 2.424T	C12 L44 (YPC)	L41-L43 Clinical Correlation: Enamel
Thu.	Nov. 20	10-10:50 AM: 2.424T 11-11:50 AM: 2.424T	L45 (YS) L46	Fibrous proteins & Connective Tissue (Ch. 8) Clinical Correlation: Bone Healing, Implants (Dr. Thomas Oates, Periodontics)
Fri.	Nov. 21	10-10:50 AM: 2.424T 11-11:50 AM: 2.424T	C13 L47 (YS)	L44-L46 Literature reading: Blood clotting
Wed.	Dec. 3	1:00-1:50 PM: 2.424T 2:00-2:50 PM: 2.424T	L48 L49 (PS)	Clinical Correlation: Oral cancer (Dr. Cara Gonzales, Endodontics) Literature reading: TBA
Thu.	Dec. 4	11-11:50 AM: 2.424T	C14	L1-L33
Tu.	Dec. 9	1:00-2:50 PM: 2.424T	C15	L34-L46
Thu.	Dec. 11	8:00 AM-11:50 AM 3.104A: Pestana Lec. Hall		<b>Final Exam: (A) L34-L46, (B) Com- prehensive (L1-L46)</b>