

**CHEM 330: Tentative Course Schedule** (Deadlines subject to change; notification will be provided.)

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**WEEK 1: 8/22 – 8/27**

**Meet T 8/23, R 8/25**

**Material:** Module 1: Atomic/Electronic Structure (Text Ch. 1 & Blackboard (Bb) resources)

**Assignments:** Development of Quantum Theory discussion posts due R 8/25 and Sa 8/27

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**WEEK 2: 8/29 – 9/3**

**Meet T 8/30, R 9/1**

**Material:** Module 1 & 2: Introduction to Nuclear Chemistry (Text Ch. 1 & Bb resources)

**Assignments:** Ch. 1 HW due W 8/31; Nuclear HW & Discussion posts due Sa 9/3

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**WEEK 3: 9/5 – 9/10**

**Meet T 9/6, R 9/8**

**Material:** Module 3: Structure & Bonding in Molecular Cpds (Text Ch. 2)

**Assignments:** Pre-test due M 9/5; Ch. 2 HW due F 9/9

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**WEEK 4: 9/12 – 9/17**

**Meet T 9/13, R 9/15**

T 9/13: **Nanomaterials in Medicine (NIM):** Framing the Questions (**NIM: The Big Questions due M 9/12**)

R 9/15: **Exam I (Modules 1 – 3)**

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**WEEK 5: 9/19 – 9/24**

**Meet T 9/20, R 9/22**

**Material:** Module 4: Structure & Bonding in Metals & Ionic Cpds; Intro to Nanomaterials (Text Ch. 4+)

**Assignments:** **NIM Background Reference List due W 9/21**

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**WEEK 6: 9/26 – 10/1**

**Meet T 9/27, R 9/29**

**Material:** Module 4, continued

**Assignments:** Amazing Alloys due M 9/26; **NIM Background 1<sup>st</sup> Draft due Sa 10/1**

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**WEEK 7: 10/3 – 10/8**

**Meet T 10/4, R 10/6**

T 10/4: Module 4, continued

R 10/6: Module 5: Intro to Main Group Chemistry – **Student presentations; Exam ?s due 10/6**

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**WEEK 8: 10/10 – 10/15**

**Meet T 10/11, R 10/13**

**Material:** Module 6: Intro to Transition Metal Coordination Chemistry (Text Ch. 7, Sect. 5.6, 20.1)

**Assignments:** Ch. 4 HW due M 10/10; **NIM Background 2<sup>nd</sup> Draft due Sa 10/15**

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**WEEK 9: 10/17 – 10/22**

**Meet T 10/18, R 10/20**

T 10/18: Module 6, continued

R 10/20: **NIM Literature Searches: Investigating Nanomaterial Applications**

**Assignments:** **NIM Preliminary Lit. Search due W 10/19**; Ch. 7+ HW due F 10/21

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**WEEK 10: 10/24 – 10/29**

**Meet T 10/25, R 10/27**

T 10/25: **Exam II (Modules 4 – 6)**

R 10/27: Module 7: Acid – Base Chemistry (Text Ch. 5)

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**WEEK 11: 10/31 – 11/5****Meet T 11/1, R 11/3**

T 11/1 Module 7, continued

R 11/3 Module 8: Oxidation – Reduction Chemistry (Text Ch. 6)

**Assignments: NIM Team Reference List & Work Plan due M 10/31; Pre-test due W 11/2**

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**WEEK 12: 11/7 – 11/12****Meet R 11/10** (*No class T 11/8 for Election Day – go vote, if you can!*)**Material:** Module 8, continued**Assignments:** Ch. 5 HW due W 11/9; **NIM Individual Summaries due F 11/11**

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**WEEK 13: 11/14 – 11/19****Meet T 11/15, R 11/17**

T 11/15: Module 8, continued

R 11/17: **NIM Group Assessment & Work Day****Assignments: NIM Report Full Draft due W 11/16; Ch. 6 HW due F 11/18**

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**WEEK 14: 11/21 – 11/26****Meet T 11/22** (*No class R 11/24 – Happy Thanksgiving!!*)T 11/22: **(Mini-)Exam III (Modules 7 – 8)**

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**WEEK 15: 11/28 – 12/3****Meet T 11/29, R 12/1**T 11/29: Review and **NIM Work Day**R 12/1: **NIM Presentations; Final Report due R 12/1**

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**WEEK 16: 12/5 – 12/10****Meet Sa 12/10, 8 a.m.****Final Exam**

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