

**Course Syllabus for CHEM 1407 – 11300; Introductory Chemistry**  
Fall Semester 2019; Lectures: MWF; 7:30 am – 8:20 am, Undergraduate Learning Center 128

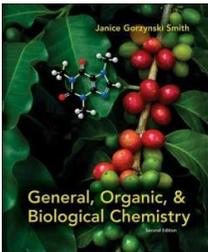
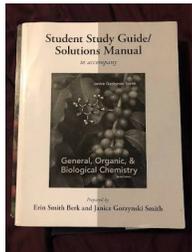
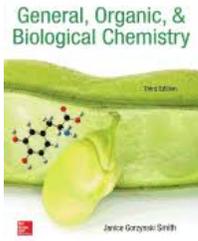
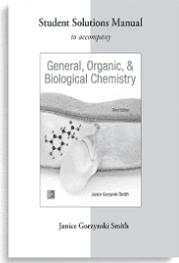
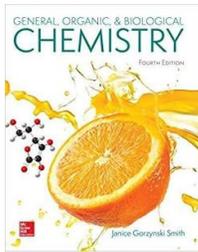
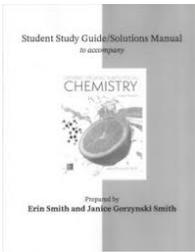
**Instructor:** Dr. K. Michael; Office: CCSB 2.0414; Phone: 747-5240;  
Email [kmichael@utep.edu](mailto:kmichael@utep.edu) (preferred method of contact)  
**Office hours:** Fridays, 3:00 pm – 4:00 pm, or by individual appointment

**Text:** **Required:** “General, Organic, & Biological Chemistry” by Janice Gorzynski Smith, 2<sup>nd</sup>, 3<sup>rd</sup>, or 4<sup>th</sup> Edition, Publisher: McGraw-Hill.

**Recommended:** “Student Study Guide/Solutions Manual”. The text has an accompanying Student Study Guide/Solutions Manual. When practicing the concepts learned in class via homework problems, we will focus on those problems for which solutions are provided in the back of the text book. However, the textbook only shows the solutions of selected problems. If you wish to practice additional problems in the textbook (which will help with mastering the class material better), you need access to all the solutions, which can be found in the Student Study Guide/Solutions Manual. The edition of the textbook and the edition of the Student Study Guide/Solutions Manual must match. For example, if you use the 3<sup>rd</sup> edition of the textbook, then the Student Study Guide/Solutions Manual should also be the 3<sup>rd</sup> edition.

The same text book will be used for CHEM 1408 [Introductory Chemistry (C)] in the spring semester 2020, instructor: Dr. K. Michael. The UTEP bookstore sells the 4<sup>th</sup> edition of the loose leaf text for \$171.50, and the Student Study Guide/Solutions Manual (4<sup>th</sup> edition) for \$102.50. You can also order this book and the Student Study Guide/Solutions Manual on-line, and sometimes used copies are available for significantly lower prices. One advantage of the loose leaf version of the text is that you can bring individual chapters to class rather than carrying the heavy text book. The digital version of the text is also suitable.

This is how the Smith text and the accompanying Student Study Guide/Solutions Manual look:

	<u>Text book</u> (required)	<u>Student Study Guide/ Solutions Manual</u> (recommended)
2 <sup>nd</sup> edition:		
		OR
3 <sup>rd</sup> edition:		
		OR
4 <sup>th</sup> edition:		

## Expected Learning

- Outcomes:** Students will acquire a firm foundation of the basic concepts related to composition, structure, and transformation of matter. The specific topics are listed below ("Curriculum").
- Curriculum:** This course will cover the first 12 chapters of "General, Organic, & Biological Chemistry" by Janice Smith. This includes matter and measurements (chapter 1), atoms and the periodic table (chapter 2), ionic compounds (chapter 3), covalent compounds (chapter 4), chemical reactions (chapter 5), energy changes, reaction rates, and equilibrium (chapter 6), gases, liquids, and solids (chapter 7), solutions (chapter 8), acids and bases (chapter 9), nuclear chemistry (chapter 10), introduction to organic molecules and functional groups (chapter 11), alkanes (chapter 12).
- Lecture:** The lecture will follow the textbook closely in the given order of the chapters. It is recommended that you bring your textbook (hard copy or electronic version) to each class, follow along, and take notes. The lecture materials will not be posted; all information needed is provided in the text book.
- Attendance:** Attendance is required and will be recorded with card readers at the entrance to the lecture hall.
- Homework:** **Reviewing the material covered in each class in your textbook and practicing the assigned homework problems is essential for mastering the class material. VERY IMPORTANT: After each class homework problems will be posted in Blackboard for you to practice on your own or with other students in order to do well in the class. The homework will not be turned in. Practicing and understanding (not memorizing!) these homework problems is your best preparation for all exams. The exam questions will be similar to the assigned homework problems.**
- Exam Dates:**
- |                                     |   |
|-------------------------------------|---|
| <b>1<sup>st</sup> Midterm Exam:</b> | Friday, Sept. 27, 2019 (chapters 1 – 4)           |
| <b>2<sup>nd</sup> Midterm Exam:</b> | Wednesday, Oct. 30, 2019 (chapters 5 – 8)         |
| <b>3<sup>rd</sup> Midterm Exam:</b> | Monday, Dec. 2, 2019 (chapters 9 – 12)            |
| <b>Final Exam:</b>                  | Friday, Dec. 13, 2019, 7:00 am – 9:00 am (1 – 12) |
- Exam Policies:** Only two (not three) midterm exams and one final exam count toward your semester grade. Therefore, you only have to take two (not three) midterm exams, and the final exam. However, it is to your advantage to take all three midterm exams because the two best midterm exams (by letter grade) will count toward your semester grade. Of the three midterm exams, the one with the lowest letter grade (or the one you didn't take) will be dropped. It is your responsibility to bring the following items to each exam:
- **A #2 pencil**
  - **Your UTEP ID**
  - **An Apperson form 29240** (not a scantron !!!!), see image attached. The bookstore sells these forms for \$0.25 each.
- The final exam will be mostly cumulative and cannot be dropped. All exams are closed book exams. Written notes and electronic devices are not allowed. All exam questions will be in multiple-choice format. Each midterm exam has 20 questions; the final exam has 40 questions.
- Extra Credit:** Each midterm exam will have one additional question (question #21), and the final exam will have two additional questions (questions #41 and #42) for extra credit. The extra credit can only be applied to the exam in which this question appeared. For example, extra credit earned for midterm exam 1 can only be applied to your midterm exam 1 score, but not to any of the other exams.
- Make-up Exams:** Make-up exams will only be granted in extraordinary situations, e.g. participation in a scientific conference, official travel of UTEP athletes, medical reasons with a doctor's note stating that you are unable to take the exam on the scheduled date. In all of these circumstances, make-

up exams have to be requested in advance. Granted make-up exams are oral and will take place by appointment in Dr. Michael's office.

**Grading:**

Your semester grade will be calculated based on:

- your two best midterm exams by letter grade ( $2 \times 25\%$ )
- your final exam by letter grade (50%)

**Important Dates:**

First class:	Monday, August 26, 2019
Labor Day	Monday, September 2, 2019 (no classes)
Census Day:	Wednesday, September 11, 2019 (last day to drop class without W)
Course drop deadline:	Friday, November 1, 2019
	The College of Science will not approve any student- or faculty-initiated drop requests for a course after that date, except under circumstances of complete withdrawal of all courses due to medical or non-medical reasons.
Thanksgiving:	Thursday, Friday, November 28-29, 2019 (no classes)
Last CHEM 2321 class:	Wednesday, December 4, 2019

**Disability:**

If you have a physical or a learning disability, please contact UTEP's Center for Accommodations and Support Services. For those who qualify, there are certain mechanisms of assistance in place.

This is how the **Apperson form 29240** looks like, see below. At the bottom of the form it says "#29240". The UTEP bookstore sells it. You can also get it at Kinley's House Coffee & Tea, 2231 N. Mesa Street, however, at Kinley's they want you to purchase a food/drink item.

(Key (K))      Verify (V)      Rescore (R)

Name	Date
Teacher	Class
School	Period
Test Name	

← ENERGY LINK ONLY → • Example (A) (B) (C) (D) (E)

Student ID Number									
(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)
(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)
(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

Test ID				
(0)	(0)	(0)	(0)	(0)
(1)	(1)	(1)	(1)	(1)
(2)	(2)	(2)	(2)	(2)
(3)	(3)	(3)	(3)	(3)
(4)	(4)	(4)	(4)	(4)
(5)	(5)	(5)	(5)	(5)
(6)	(6)	(6)	(6)	(6)
(7)	(7)	(7)	(7)	(7)
(8)	(8)	(8)	(8)	(8)
(9)	(9)	(9)	(9)	(9)

- 1. (A) (B) (C) (D) (E)      35. (A) (B) (C) (D) (E)      69. (A) (B) (C) (D) (E)
- 2. (A) (B) (C) (D) (E)      36. (A) (B) (C) (D) (E)      70. (A) (B) (C) (D) (E)
- 3. (A) (B) (C) (D) (E)      37. (A) (B) (C) (D) (E)      71. (A) (B) (C) (D) (E)
- 4. (A) (B) (C) (D) (E)      38. (A) (B) (C) (D) (E)      72. (A) (B) (C) (D) (E)
- 5. (A) (B) (C) (D) (E)      39. (A) (B) (C) (D) (E)      73. (A) (B) (C) (D) (E)
- 6. (A) (B) (C) (D) (E)      40. (A) (B) (C) (D) (E)      74. (A) (B) (C) (D) (E)
- 7. (A) (B) (C) (D) (E)      41. (A) (B) (C) (D) (E)      75. (A) (B) (C) (D) (E)
- 8. (A) (B) (C) (D) (E)      42. (A) (B) (C) (D) (E)      76. (A) (B) (C) (D) (E)
- 9. (A) (B) (C) (D) (E)      43. (A) (B) (C) (D) (E)      77. (A) (B) (C) (D) (E)
- 10. (A) (B) (C) (D) (E)      44. (A) (B) (C) (D) (E)      78. (A) (B) (C) (D) (E)
- 11. (A) (B) (C) (D) (E)      45. (A) (B) (C) (D) (E)      79. (A) (B) (C) (D) (E)
- 12. (A) (B) (C) (D) (E)      46. (A) (B) (C) (D) (E)      80. (A) (B) (C) (D) (E)
- 13. (A) (B) (C) (D) (E)      47. (A) (B) (C) (D) (E)      81. (A) (B) (C) (D) (E)
- 14. (A) (B) (C) (D) (E)      48. (A) (B) (C) (D) (E)      82. (A) (B) (C) (D) (E)
- 15. (A) (B) (C) (D) (E)      49. (A) (B) (C) (D) (E)      83. (A) (B) (C) (D) (E)
- 16. (A) (B) (C) (D) (E)      50. (A) (B) (C) (D) (E)      84. (A) (B) (C) (D) (E)
- 17. (A) (B) (C) (D) (E)      51. (A) (B) (C) (D) (E)      85. (A) (B) (C) (D) (E)
- 18. (A) (B) (C) (D) (E)      52. (A) (B) (C) (D) (E)      86. (A) (B) (C) (D) (E)
- 19. (A) (B) (C) (D) (E)      53. (A) (B) (C) (D) (E)      87. (A) (B) (C) (D) (E)
- 20. (A) (B) (C) (D) (E)      54. (A) (B) (C) (D) (E)      88. (A) (B) (C) (D) (E)
- 21. (A) (B) (C) (D) (E)      55. (A) (B) (C) (D) (E)      89. (A) (B) (C) (D) (E)
- 22. (A) (B) (C) (D) (E)      56. (A) (B) (C) (D) (E)      90. (A) (B) (C) (D) (E)
- 23. (A) (B) (C) (D) (E)      57. (A) (B) (C) (D) (E)      91. (A) (B) (C) (D) (E)
- 24. (A) (B) (C) (D) (E)      58. (A) (B) (C) (D) (E)      92. (A) (B) (C) (D) (E)
- 25. (A) (B) (C) (D) (E)      59. (A) (B) (C) (D) (E)      93. (A) (B) (C) (D) (E)
- 26. (A) (B) (C) (D) (E)      60. (A) (B) (C) (D) (E)      94. (A) (B) (C) (D) (E)
- 27. (A) (B) (C) (D) (E)      61. (A) (B) (C) (D) (E)      95. (A) (B) (C) (D) (E)
- 28. (A) (B) (C) (D) (E)      62. (A) (B) (C) (D) (E)      96. (A) (B) (C) (D) (E)
- 29. (A) (B) (C) (D) (E)      63. (A) (B) (C) (D) (E)      97. (A) (B) (C) (D) (E)
- 30. (A) (B) (C) (D) (E)      64. (A) (B) (C) (D) (E)      98. (A) (B) (C) (D) (E)
- 31. (A) (B) (C) (D) (E)      65. (A) (B) (C) (D) (E)      99. (A) (B) (C) (D) (E)
- 32. (A) (B) (C) (D) (E)      66. (A) (B) (C) (D) (E)      100. (A) (B) (C) (D) (E)
- 33. (A) (B) (C) (D) (E)      67. (A) (B) (C) (D) (E)
- 34. (A) (B) (C) (D) (E)      68. (A) (B) (C) (D) (E)

Apprentice  
**DataLink** 3000 / 5000ck (Formerly SmartMax)  
TECHNICAL ASSISTANCE 800-822-5122 U.S. Patent No. 5,096,218 9518  
www.apprentice.com 800-822-5122



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