



Chemistry 1010 CE



GTI website <http://gti.graniteschools.org>

Course Information

Location: Granite Technical Institute
2500 South State Street

Offered to: 11-12 grades

Transportation: School bus available to and from GTI

Registration: Application for traveling off-campus signed by guardian & Career Coordinator

Length: 2 -period block Semester

Credits: 1.0 credit

Fees: \$40 class fee

Concurrent Enrollment through SLCC- general education



- This course is designed for students who want to obtain a basic understanding of chemistry. No previous knowledge in chemistry is needed. A foundation of basic chemical knowledge is provided for students who need to prepare for further study in chemistry as well as for students who only want an introductory survey course. Concepts covered include general chemistry principles such as chemical measurements, formulas, reactions, equations, solutions, states of matter, atomic structure and nomenclature. Quantitative problem-solving skills are developed and include the application of significant figures, dimensional analysis, stoichiometry, and ideal gas law calculations. The successful student will attain a modern scientific perspective on the world around them as well as new problem-solving skills that can be readily applied throughout their daily lives.

Periodic Table of the Elements

1 IA 1A																		18 VIIIA 8A											
1 H Hydrogen 1.008	2 He Helium 4.003																	3 Li Lithium 6.941	4 Be Beryllium 9.012	5 B Boron 10.811	6 C Carbon 12.011	7 N Nitrogen 14.007	8 O Oxygen 15.999	9 F Fluorine 18.998	10 Ne Neon 20.180				
3 IIA 2A												11 IB 1B		12 IIB 2B		13 IIIA 3A		14 IVA 4A		15 VA 5A		16 VIA 6A		17 VIIA 7A					
11 Na Sodium 22.990	12 Mg Magnesium 24.305											19 K Potassium 39.098	20 Ca Calcium 40.078	21 Sc Scandium 44.956	22 Ti Titanium 47.88	23 V Vanadium 50.942	24 Cr Chromium 51.996	25 Mn Manganese 54.938	26 Fe Iron 55.933	27 Co Cobalt 58.933	28 Ni Nickel 58.693	29 Cu Copper 63.546	30 Zn Zinc 65.39	31 Ga Gallium 69.723	32 Ge Germanium 72.61	33 As Arsenic 74.922	34 Se Selenium 78.96	35 Br Bromine 79.904	36 Kr Krypton 84.80
37 IIB 3A												38 IIB 4A		49 IIB 5A		50 IIB 6A		51 IIB 7A		52 IIB 8A									
37 Rb Rubidium 84.468	38 Sr Strontium 87.62											47 Ag Silver 107.868	48 Cd Cadmium 112.411	49 In Indium 114.818	50 Sn Tin 118.71	51 Sb Antimony 121.760	52 Te Tellurium 127.6	53 I Iodine 126.905	54 Xe Xenon 131.29										
55 IIB 6A												81 IIB 7A		82 IIB 8A		83 IIB 9A		84 IIB 10A		85 IIB 11A		86 IIB 12A							
55 Cs Cesium 132.905	56 Ba Barium 137.327											81 Tl Thallium 204.383	82 Pb Lead 207.2	83 Bi Bismuth 208.980	84 Po Polonium [209]	85 At Astatine [210]	86 Rn Radon 222.018												
87 IIB 13A												113 IIB 13A		114 IIB 14A		115 IIB 15A		116 IIB 16A		117 IIB 17A		118 IIB 18A							
87 Fr Francium 223.020	88 Ra Radium 226.025											113 Uut Ununtrium [288]	114 Fl Flerovium [289]	115 Uup Ununpentium [289]	116 Lv Livermorium [293]	117 Uus Ununseptium [294]	118 Uuo Ununoctium [294]												
Lanthanide Series												Actinide Series																	
57 La Lanthanum 138.905	58 Ce Cerium 140.115	59 Pr Praseodymium 140.908	60 Nd Neodymium 144.24	61 Pm Promethium [144.913]	62 Sm Samarium 150.36	63 Eu Europium 151.966	64 Gd Gadolinium 157.25	65 Tb Terbium 158.925	66 Dy Dysprosium 162.50	67 Ho Holmium 164.930	68 Er Erbium 167.26	69 Tm Thulium 168.934	70 Yb Ytterbium 173.04	71 Lu Lutetium 174.967	89 Ac Actinium 227.028	90 Th Thorium 232.038	91 Pa Protactinium 231.036	92 U Uranium 238.029	93 Np Neptunium 237.048	94 Pu Plutonium 244.064	95 Am Americium 243.061	96 Cm Curium 247.070	97 Bk Berkelium 247.070	98 Cf Californium 251.080	99 Es Einsteinium [254]	100 Fm Fermium 257.095	101 Md Mendelevium 258.1	102 No Nobelium 259.101	103 Lr Lawrencium [262]
Alkali Metal		Alkaline Earth		Transition Metal		Basic Metal		Semimetal		Nonmetal		Halogen		Noble Gas		Lanthanide		Actinide											

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December 2019