

# B.S. IN PHYSICS CHEMISTRY CONCENTRATION

Fall 1			Spring 1		
ENG 11011	College Writing I	3	PHY 23101	Gen. Univ. Phys. I	5
MATH 12002	Calculus I*	5	MATH 12003	Calculus II	5
CHEM 10060	Gen. Chemistry I	4	CHEM 10061	Gen. Chemistry II	4
CHEM 10062	Chemistry Lab I	1	CHEM 10063	Chemistry Lab II	1
PHY 12000	Intro. Seminar	1			<u>15</u>
US 10097	Dest. Kent State: FYE	1			
		<u>15</u>			
Fall 2			Spring 2		
MATH 32051	Math. Phys. Sci. I	4	MATH 32052	Math. Phys. Sci. II	4
PHY 23102	Gen. Univ. Phys. II	5	ENG 21011	College Writing II	3
CHEM 2/30481	Organic Chem.**	3-4	PHY 36001	Intro. Modern Physics	3
	KC Humanities or Fine Arts	3		KC Humanities	3
		<u>15-16</u>		Chemistry Elective***	2-3
					<u>15-16</u>
Fall 3			Spring 3		
PHY 35101	Class. Mechanics	4	CHEM 30301	Inorg. Chem. I	2
PHY 36002	App. Modern Physics	3	PHY 30020	Inter. Physics Lab	2
	Physics Elective	4	PHY 45301	Thermal Physics	3
	Foreign Lang. I****	4		Foreign Lang. II****	4
		<u>15</u>		KC Social Science 1	3
					<u>14</u>
Fall 4			Spring 4		
PHY 40092	Physics Internship	2	PHY 40020	Adv. Physics Lab	2
PHY 45201	Electromagnetic Theory	4		Physics Elective	4
CHEM 30105	Anal. Chem. I	3		Chemistry Elective***	3
CHEM 30107	Anal. Chem. Lab I	1		KC Additional	3
	KC Social Science 2	3		General Elective	3
	KC Fine Arts	3			<u>15</u>
		<u>16</u>			

Total of 15 hours of Chemistry beyond CHEM 10063 is required.

\*MATH 11010 (Algebra for Calculus) and MATH 11022 (Trigonometry) are prerequisite courses, which the student with sufficient background should bypass.

\*\*Students must choose either CHEM 20481 or CHEM 30481 and 30482.

\*\*\*Chemistry elective(s) normally must be chosen from either CHEM 20482 (Basic Organic Chemistry), CHEM 30050 (Intro. to Materials Chemistry), CHEM 30106 (Analytical Chemistry II), CHEM 30104 (Analytical Chemistry Lab II), CHEM 30284 (Introductory Biological Chemistry), CHEM 30475 (Organic Chemistry Laboratory I), CHEM 30476 (Organic Chemistry Laboratory II), CHEM 30482 (Organic Chemistry II), CHEM 40556 (Elementary Physical Chemistry), or CHEM 40567 (Basic Concepts of Physical Chemistry). CHEM 40568 (Elementary Physical Chemistry Lab). CHEM 20482 may not be taken if CHEM 30481 and 30482 are taken. Students who choose CHEM 40567 should not also take CHEM 40556. CHEM 40568 may only be selected if CHEM 40556 or 40567 is taken as a pre/co-requisite.

\*\*\*Elementary I and II Arabic, Chinese, and Japanese each require 5 credit hours. Choosing these courses will reduce your General Electives by 2 hrs.

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