

B.S. IN PHYSICS PRE-MEDICINE/PRE-OSTEOPATHY CONCENTRATION

| Fall 1 | | | Spring 1 | | |
|------------|-----------------------|-----------|------------|---------------------|-----------|
| CHEM 10060 | Gen. Chemistry I | 4 | CHEM 10061 | Gen. Chemistry II | 4 |
| CHEM 10062 | Chemistry Lab I | 1 | CHEM 10063 | Chemistry Lab II | 1 |
| MATH 12002 | Calculus I [1] | 5 | MATH 12003 | Calculus II | 5 |
| PHY 12000 | Intro. Seminar | 1 | PHY 23102 | Gen. Univ. Phys. II | 5 |
| PHY 23101 | Gen. Univ. Phys. I | 5 | | | <u>15</u> |
| US 10097 | Dest. Kent State: FYE | 1 | | | |
| | | <u>17</u> | | | |

| Fall 2 | | | Spring 2 | | |
|------------|--------------------|-----------|------------|-----------------------|-----------|
| BSCI 10120 | Biol. Foundations | 4 | BSCI 30140 | Cell Biology | 4 |
| CHEM 30481 | Org. Chem. I | 3 | CHEM 30482 | Org. Chem. II | 3 |
| CHEM 30475 | Org. Chem. Lab I | 1 | CHEM 30476 | Org. Chem. Lab II | 1 |
| MATH 32051 | Math. Phys. Sci. I | 4 | MATH 32052 | Math. Phys. Sci. II | 4 |
| PSYC 11762 | Gen. Psychology | 3 | PHY 36001 | Intro. Modern Physics | 3 |
| | | <u>15</u> | | | <u>15</u> |

| Fall 3 | | | Spring 3 | | |
|------------|----------------------|-----------|------------|----------------------------|----------------|
| BSCI 30030 | Human Physiology [2] | 4 | BSCI 30171 | Gen. Microbiology | 4 |
| BSCI 30156 | Elem. Genetics | 3 | CHEM 30284 | Intro. Biol. Chemistry [3] | 4 |
| PHY 35101 | Class. Mechanics | 4 | PHY 30020 | Inter. Physics Lab | 2 |
| SOC 12050 | Intro. Sociology | 3 | ENG 21011 | College Writing II | 3 |
| ENG 11011 | College Writing I | 3 | | Concentration Elective [4] | 3-4 |
| | | <u>17</u> | | | <u>16 - 17</u> |

| Fall 4 | | | Spring 4 | | |
|-----------|------------------------|-----------|-----------|-------------------------|-----------|
| PHY 40092 | Physics Internship | 2 | PHY 40020 | Adv. Physics Lab | 2 |
| PHY 45201 | Electromagnetic Theory | 4 | | KC Humanities/Fine Arts | 3 |
| | Foreign Lang. I [5] | 4 | | Foreign Lang. II [5] | 4 |
| | KC Humanities [6] | 3 | | KC Fine Arts | 3 |
| | | <u>13</u> | | | <u>12</u> |

[1] MATH 12001 (Algebra and Trigonometry) is a prerequisite course, which the student with sufficient background should bypass.

[2] BSCI 40040 (Animal Physiology) for 3 credits may substitute.

[3] CHEM 40245 (Biochemical Foundations of Medicine) for 4 credits may substitute.

[4] The concentration elective must be chosen either from BSCI 30518 (Vertebrate Anatomy) [4 credits], BSCI 40174 (Immunology) [3 credits], PHY 41010 (Biophotonics) [3 credits] - offered in Spring semesters - or from BSCI 40517 (Medical Histology) [3 credits] or PHY 44600 (Introduction to Biological Physics) [3 credits] - offered in Fall semesters.

[5] Elementary I and II Arabic, Chinese, and Japanese each require 5 credit hours.

[6] PHIL 21001 (Introduction to Ethics) for 3 credits is recommended.

AY14-15