

# B.S. IN PHYSICS APPLIED MATHEMATICS 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         |
| CS 13001   | CSI: Prog. & Prob. Solv. | 4         | PHY 36001  | Intro. Modern Physics      | 3         |
|            | General Elective         | 2         |            | General Elective           | 3         |
|            |                          | <u>15</u> |            | KC Humanities or Fine Arts | 3         |
|            |                          |           |            |                            | <u>16</u> |
| Fall 3     |                          |           | Spring 3   |                            |           |
| PHY 35101  | Class. Mechanics         | 4         | PHY 30020  | Inter. Physics Lab         | 2         |
| PHY 36002  | App. Modern Physics      | 3         | PHY 45403  | Data Anal. & Comp. Phys.   | 3         |
| PHY 45201  | Electromagnetic Theory   | 4         |            | Math Elective-UD           | 3         |
|            | Foreign Lang. I**        | 4         |            | Foreign Lang. II**         | 4         |
|            |                          | <u>15</u> |            | KC Social Science 1        | 3         |
|            |                          |           |            |                            | <u>15</u> |
| Fall 4     |                          |           | Spring 4   |                            |           |
| PHY 40092  | Physics Internship       | 2         | PHY 40020  | Adv. Physics Lab           | 2         |
| PHY 45401  | Math Methods in Phys.    | 4         |            | Physics Elective           | 3         |
|            | Physics Elective-UD      | 3         |            | Math Elective-UD           | 3         |
|            | KC Humanities            | 3         |            | KC Social Science 2        | 3         |
|            | General Elective         | 3         |            | KC Fine Arts               | 3         |
|            |                          | <u>15</u> |            |                            | <u>14</u> |

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

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