

# B.S. IN PHYSICS APPLIED MATHEMATICS AND COMPUTER SCIENCE 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        |
| CS 10051   | Intro. Comp. Sci.       | 4         | CS 23021   | Prog. and Prob. Solving | <u>4</u> |
| PHY 12000  | Intro. Seminar          | 1         |            |                         | 14       |
| US 10097   | Dest. Kent. State: FYE  | 1         |            |                         |          |
|            | Humanities or Fine Arts | 3         |            |                         |          |
|            |                         | <u>17</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 23022   | Discrete Structures     | 3         | PHY 36001  | Intro. Modern Physics   | 3        |
|            | Foreign Lang. I**       | 4         |            | Foreign Lang. II**      | <u>4</u> |
|            |                         | <u>16</u> |            |                         | 14       |
| Fall 3     |                         |           | Spring 3   |                         |          |
| PHY 30020  | Inter. Physics Lab      | 2         | CS 33001   | Data Struct. and Abst.  | 3        |
| PHY 35101  | Class. Mechanics        | 4         |            | CS Elective-UD          | 3        |
| PHY 36002  | App. Modern Physics     | 3         |            | General Elective***     | 3        |
| PHY 45201  | Electromagnetic Theory  | 4         |            | Humanities              | 3        |
|            | Social Science 1        | 3         |            | Social Science 2        | <u>3</u> |
|            |                         | <u>16</u> |            |                         | 15       |
| Fall 4     |                         |           | Spring 4   |                         |          |
| PHY 40020  | Adv. Physics Lab        | 2         |            | Physics Elective-UD     | 3        |
| PHY 40092  | Physics Internship      | 2         |            | Fine Arts               | 3        |
| CHEM 10060 | Gen. Chemistry I        | 4         | CHEM 10061 | Gen. Chemistry II       | 4        |
| CHEM 10062 | Chemistry Lab I         | 1         | CHEM 10063 | Chemistry Lab II        | 1        |
| CS 42201   | Num. Computing I***     | 3         |            | CS Elective-UD          | <u>3</u> |
|            | Additional LER          | 3         |            |                         | 14       |
|            |                         | <u>15</u> |            |                         |          |

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

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

\*\*\*CS 42201 (Numerical Computing I) requires MATH 21001 (Linear Algebra with Applications) as a prerequisite. It is recommended that MATH 21001 be taken as the General Elective in Spring 3.

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