

**B.S. IN PHYSICS
RESEARCH CONCENTRATION
FOR STUDENTS IN THE HONORS COLLEGE**

| Fall 1 | | | Spring 1 | | |
|------------|----------------------------|-----------|------------|---------------------------|-----------|
| HONR 10197 | Honors Colloquium I | 4 | HONR 10297 | Honors Colloquium II | 4 |
| MATH 12002 | Calculus I* | 5 | MATH 12003 | Calculus II | 5 |
| PHY 23101 | Gen. Univ. Phys. I | 5 | PHY 23102 | Gen. Univ. Phys. II | 5 |
| PHY 12000 | Intro. Seminar | 1 | | General Elective | 2 |
| UC 10097 | Dest. Kent State: FYE | 1 | | | <u>16</u> |
| | | <u>16</u> | | | |
| Fall 2 | | | Spring 2 | | |
| MATH 32051 | Math. Phys. Sci. I | 4 | MATH 32052 | Math. Phys. Sci. II | 4 |
| CHEM 10970 | Honors Chemistry I | 4 | CHEM 10971 | Honors Chemistry II | 4 |
| CHEM 10062 | Chemistry Lab I | 1 | CHEM 10063 | Chemistry Lab II | 1 |
| | Foreign Lang. I | 4 | | Foreign Lang. II | 4 |
| | KC Social Science 1 | 3 | PHY 36001 | Intro. Modern Physics | 3 |
| | | <u>16</u> | | | <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 45301 | Thermal Physics | 3 |
| PHY 45201 | Electromagnetic Theory | 4 | PHY 45403 | Data Anal. & Comp. Phys. | 3 |
| CS 13001 | CSI: Prog. & Prob. Solv. | 4 | PHY 46101 | Quantum Mechanics | 4 |
| | or | | | KC Honors Humanities | 3 |
| CS 13011 | CSIA-Procedural Prog. and | 2 | | | <u>15</u> |
| CS 13012 | CSIB-Object Oriented Prog. | 2 | | | |
| | | <u>15</u> | | | |
| Fall 4 | | | Spring 4 | | |
| PHY 40099 | Sr. Honors Thesis | 5 | PHY 40099 | Sr. Honors Thesis | 5 |
| | KC Honors Social Science 2 | 3 | PHY 40020 | Adv. Physics Lab | 2 |
| | General Elective | 4 | | KC Fine Arts | 3 |
| | Physics Elective | 1 | | KC Hon. Hum. or Fine Arts | 3 |
| | | <u>13</u> | | | <u>13</u> |

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