

**B.S. APPLIED PHYSICS  
ASTRONOMY & ASTROPHYSICS OPTION  
(120 credits)  
ACADEMIC CURRICULUM AND CHECK LIST**

Name: \_\_\_\_\_

NJIT ID number: \_\_\_\_\_

|   |                |           |           |  |                |           |           |
|---|----------------|-----------|-----------|--|----------------|-----------|-----------|
| <b>FIRST YEAR (FALL)</b>                              |                |           | <b>Cr</b> | <b>FIRST YEAR (SPRING)</b>                     |                |           | <b>Cr</b> |
| HUM   | 101            | 3         |           | PHYS   | 114            | 3         |           |
| PHYS  | 111            | 3         |           | PHYS   | 121            | 3         |           |
| PHYS  | 111A           | 1         |           | PHYS   | 121A           | 1         |           |
| MATH  | 111            | 4         |           | MATH   | 112            | 4         |           |
| CS  | 113 or 115     | 3         |           | CHEM   | 122 or 126     | 3         |           |
| CHEM  | 121 or 125     | 3         |           | CHEM (LAB)                                     | 124            | 1         |           |
| Freshman  | Seminar        | 0         |           |  |                |           |           |
|   | <b>Term Cr</b> | <b>17</b> |           |  | <b>Term Cr</b> | <b>15</b> |           |
| <b>SECOND YEAR (FALL)</b>                             |                |           | <b>Cr</b> | <b>SECOND YEAR (SPRING)</b>                    |                |           | <b>Cr</b> |
| HUM   | 102            | 3         |           | MATH   | 222            | 4         |           |
| PHYS  | 234            | 3         |           | MATH   | 328            | 3         |           |
| PHYS  | 231A           | 1         |           | PHYS335 or R315 THERMODYNAMICS                 | 335 / R315     | 3         |           |
| MATH  | 213            | 4         |           | UPPER LEVEL COM/ENG/HIST/LIT/PHIL/STS/THTR GER | GER            | 3         |           |
| MATH (1-credit Stats GER, or 3-credit MATH 333 later) | 225            | 1         |           |  |                |           |           |
| CULTURAL HISTORY GER                                  | GER            | 3         |           |  |                |           |           |
|   |                |           |           |  |                |           |           |
|   | <b>Term Cr</b> | <b>15</b> |           |  | <b>Term Cr</b> | <b>13</b> |           |
| <b>THIRD YEAR (FALL)</b>                              |                |           | <b>Cr</b> | <b>THIRD YEAR (SPRING)</b>                     |                |           | <b>Cr</b> |
| <b>Astronomy &amp; Astrophysics Option</b>            |                |           |           | <b>Astronomy &amp; Astrophysics Option</b>     |                |           |           |
| PHYS  | 320            | 3         |           | PHYS   | 321            | 3         |           |
| MATH  | ELECTIVE       | 3         |           | PHYS   | 433            | 3         |           |
| PHYS  | 430            | 3         |           | PHYS   | 418            | 3         |           |
| PHYS  | 432            | 3         |           | MATH/PHYS/CS                                   | ELECTIVE       | 3         |           |
| UPPER LEVEL COM/ENG/HIST/LIT/PHIL/STS/THTR GER        | GER            | 3         |           | CAPSTONE SEMINAR GER                           | GER            | 3         |           |
|   |                |           |           |  |                |           |           |
|   | <b>Term Cr</b> | <b>15</b> |           |  | <b>Term Cr</b> | <b>15</b> |           |
| <b>FOURTH YEAR (FALL)</b>                             |                |           | <b>Cr</b> | <b>FOURTH YEAR (SPRING)</b>                    |                |           | <b>Cr</b> |
| <b>Astronomy &amp; Astrophysics Option</b>            |                |           |           | <b>Astronomy &amp; Astrophysics Option</b>     |                |           |           |
| PHYS  | 420            | 3         |           | PHYS   | 322            | 3         |           |
| PHYS442 or R404 QUANTUM MECHANICS                     | 442 / R404     | 3         |           | PHYS   | 421            | 3         |           |
| MATH / PHYS / CS                                      | ELECTIVE       | 3         |           | PHYS   | 450            | 3         |           |
| TECHNICAL   | ELECTIVE       | 3         |           | TECHNICAL                                      | ELECTIVE       | 3         |           |
| MANAGEMENT/SS GER                                     | GER            | 3         |           | TECHNICAL                                      | ELECTIVE       | 3         |           |
|   | <b>Term Cr</b> | <b>15</b> |           |  | <b>Term Cr</b> | <b>15</b> |           |

Total Credits      120