

Name: _____

APPLIED PHYSICS, BS

MAJOR REQUIREMENTS 2013 -

Courses may be counted toward both Major and General Requirements. However, no course may fulfill two categories of General Requirements. (If you use any course for both Major and General Requirements, be sure to count the credits only ONCE toward the degree total.)

| <u>COURSES REQUIRED</u> | <u>MINIMUM CREDITS</u> | <u>COURSES COMPLETED</u> <u>Subj.#: Course #</u> | <u>COMPLETED CREDITS SEM/YR</u> | | <u>OFFICE SENIOR REVIEW</u> |
|---|------------------------|---|---------------------------------|-----|-----------------------------|
| ELEMENTS OF PHYSICS I and LAB | 4 | 750:131,133 | ___ | ___ | ___ |
| ELEMENTS OF PHYSICS II and LAB | 4 | 750:132,134 | ___ | ___ | ___ |
| ELECTRIC CIRCUITS I | 3 | 750:233 | ___ | ___ | ___ |
| ELEMENTS OF MODERN PHYSICS and LAB | 3,1 | 750:232,238 | ___ | ___ | ___ |
| ELECTROMAGNETIC THEORY | 3 | 750:301 | ___ | ___ | ___ |
| BIOPHYSICS | 3 | 750:362 | ___ | ___ | ___ |
| ELECTROMAGNETIC WAVES AND OPTICS | 3 | 750:302 | ___ | ___ | ___ |
| ELECTRONICS | 3 | 750:307 | ___ | ___ | ___ |
| THERMAL PHYSICS I | 3 | 750:351 | ___ | ___ | ___ |
| CONDENSED MATTER AND MATERIALS PHYSICS | 3 | 750:406 | ___ | ___ | ___ |
| ANALYTICAL MECHANICS I & II | 3,3 | 750-309-310 | ___ | ___ | ___ |
| COMPUTATIONAL PHYSICS | 3 | 750:417 | ___ | ___ | ___ |
| RESEARCH IN PHYSICS | 3,3 | 750:491,492 | ___ | ___ | ___ |
| INDEPENDENT STUDY | 2,2 | 750:489-490 | ___ | ___ | ___ |
| ELEMENTS OF QUANTUM MECHANICS I | 3 | 750-413 | ___ | ___ | ___ |
| METHODS OF MATERIALS CHARACTERIZATION | 3 | 750-420 | ___ | ___ | ___ |
| MATHEMATICAL PHYSICS | 3 | 750-463 | ___ | ___ | ___ |
| <u>ADDITIONAL REQUIRED COURSES</u> | | | | | |
| UNIFIED CALCULUS I | 4 | 640:121 | ___ | ___ | ___ |
| UNIFIED CALCULUS II | 4 | 640:122 | ___ | ___ | ___ |
| MATHEMATICAL METHODS FOR SCIENTISTS I & II | 3,3 | 640:468-469 | ___ | ___ | ___ |
| <u>-OR-</u> | | | | | |
| UNIFIED CALCULUS III & ELEMENTARY DIFFERENTIAL EQUATIONS | 3,3 | 640:221,640:314 | ___ | ___ | ___ |
| PROGRAMMING FUNDAMENTALS 198:111 AND SOFTWARE LAB 198:112 or INTRO. TO SCI. COMPUTING 750:140 | 4/3 | 198-111&112 -or- 750:140 | ___ | ___ | ___ |
| CHEMICAL PRINCIPLES I and LAB | 4 | 160:115, 125 | ___ | ___ | ___ |
| CHEMICAL PRINCIPLES II and LAB | 4 | 160:116, 126 | ___ | ___ | ___ |

TOTAL DEGREE CREDITS REQUIRED : 120

TOTAL CREDITS COMPLETED: _____

SENIOR REVIEW APPROVAL BY FACULTY ADVISOR: _____

DATE OF REVIEW: _____

C=Complete

YOUR SIGNATURE & DATE: _____

2013-