Weinberg College of Arts & Sciences

# Degree Requirement Worksheet

# for Physics and Astronomy Majors, 2015-2016

***Note: This is a worksheet only. Content has not been verified by the registrar.***

Name: Class of ‘

Optional Additional Major(s): Optional Minor(s):

Part I: General WCAS Requirements

A. First-Year Seminars (2 courses total). Grade must be D or higher. No P/N.

|  |
| --- |
| Course Number & Title |
| 1. |
| 2. |

B. Distribution Requirements (12 courses total). Includes approved AP credits (max = 2, each in a different area), transfer credits, and courses taken at Northwestern in which a grade of D or higher was earned. No P/N courses allowed.

|  |  |
| --- | --- |
|  | Course Number & Title |
| I. Natural Sciences | 1. |
|  | 2. |
| II. Formal Studies | 1. |
|  | 2. |
| III. Social Sciences | 1 |
|  | 2 |
| IV. Historical Studies | 1. |
|  | 2. |
| V. Ethics and Values | 1. |
|  | 2. |
| VI. Literature & Art | 1. |
|  | 2. |

C. Writing Proficiency Requirement Fulfilled? Y / N

 If no, plans for completion:

D. Foreign Language Requirement Fulfilled? Y / N

 If no, plans for completion:

E. Total number of units earned, assuming successful completion of current enrollment (a minimum of 45 units is required):

Part II: Requirements for the Major in Physics and Astronomy

(15-17 courses total, depending on the concentration chosen)

* Minimum grade of C-
* Courses in Table B (distribution requirements) may be double-counted here.
* Students must choose an area of concentration from: Advanced Physics (6 units), Astronomy (6 units), Biomedical Physics (8 units), Computational Physics (7 units), Materials Physics (8 units), or Nanoscale Physics (6 units).
* Math 212, 213, and 214 may substitute for Math 220 and 224.
* **Prerequisites**: MATH 220, 224 (or 212, 213, 214), 230; PHYSICS 125-1, -2, -3/126-1, -2, -3 or 135-1, -2, -3/136-1, -2, -3.

|  |  |  |
| --- | --- | --- |
|  | Course Number and Title | Taken? |
| 9 core courses in physics and mathematics; see the department or Catalog for substitutions on math courses | 1. MATH 234/291-1/281-1 |  |
| 2. MATH 240/291-2 and -3/281-2 |  |
| 3. MATH 250/281-3 |  |
| 4. MATH 351 |  |
| 5. PHYSICS 330-1, Classical Mechanics 1 |  |
| 6. PHYSICS 332, Statistical Mechanics |  |
| 7. PHYSICS 333-1, Advanced E & M 1 |  |
| 8. PHYSICS 339-1, Quantum Mechanics 1 |  |
| 9. ASTRON 321; PHYSICS 357, 358, 359, or 360 |  |
| 6-8 courses in a concentration;see the Catalog for concentration details | 10.  |  |
| 11.  |  |
| 12.  |  |
| 13.  |  |
| 14. |  |
| 15. |  |
| \*16. |  |
| \*17. |  |

### Part III: Notes

Use this section to note any exceptions to the normal requirements that have been approved by the department or dean’s office, for example, course substitutions or study abroad credits authorized towards the major or distribution requirements.