



**ARKANSAS STATE**  
UNIVERSITY

**Eight-Semester Degree Plan**  
**Bachelor of Science**  
**Major in Physics**  
**2017-2018**

| Year 1                          |                             |     |        |                            |                                |     |        |
|---------------------------------|-----------------------------|-----|--------|----------------------------|--------------------------------|-----|--------|
| Fall Semester                   |                             |     |        | Spring Semester            |                                |     |        |
| Course No.                      | Course Name                 | Hrs | Gen Ed | Course No.                 | Course Name                    | Hrs | Gen Ed |
| PHSC 1003                       | First Year Experience       | 3   |        | CS 2114                    | Structured Programming I       | 4   |        |
| ENG 1003                        | Composition I               | 3   | X      | ENG 1013                   | Composition II                 | 3   | X      |
| MATH 2204                       | Calculus I                  | 4   | X      | PHYS 2044                  | University Physics II          | 4   |        |
| PHYS 2034                       | University Physics I        | 4   | X      | MATH 2214                  | Calculus II                    | 4   |        |
| (Elective)                      | (Elective)                  | 1   |        |                            |                                |     |        |
| <b>Total Hours:</b>             |                             | 15  |        | <b>Total Hours:</b>        |                                | 15  |        |
| Year 2                          |                             |     |        |                            |                                |     |        |
| Fall Semester                   |                             |     |        | Spring Semester            |                                |     |        |
| Course No.                      | Course Name                 | Hrs | Gen Ed | Course No.                 | Course Name                    | Hrs | Gen Ed |
| (Gen Ed)                        | (General Education Course)  | 3   | X      | (Elective)                 | (Elective)                     | 2   |        |
| (Gen Ed)                        | (General Education Course)  | 3   | X      | CHEM 1013                  | Chemistry I                    | 3   |        |
| PHYS 3153                       | Mechanics                   | 3   |        | CHEM 1011                  | Chemistry I Lab                | 1   |        |
| PHYS 3303                       | Modern Physics              | 3   |        | PHYS 3203                  | Electromagnetic Theory         | 3   |        |
| MATH 3254                       | Calculus III                | 4   |        | MATH 4403                  | Differential Equations         | 3   |        |
|                                 |                             |     |        | (Gen Ed)                   | (General Education Course)     | 3   | X      |
| <b>Total Hours:</b>             |                             | 16  |        | <b>Total Hours:</b>        |                                | 15  |        |
| Year 3                          |                             |     |        |                            |                                |     |        |
| Fall Semester                   |                             |     |        | Spring Semester            |                                |     |        |
| Course No.                      | Course Name                 | Hrs | Gen Ed | Course No.                 | Course Name                    | Hrs | Gen Ed |
| BIOL 2013                       | Biology of the Cell         | 3   | X      | PHYS 4353                  | Mathematical Physics           | 3   |        |
| BIOL 2011                       | Biology of the Cell Lab     | 1   | X      | PHYS 3253                  | Optics                         | 3   |        |
| (Gen Ed)                        | (General Education Course)  | 3   | X      | SCOM 1203                  | Oral Communication             | 3   | X      |
| CHEM 1023                       | Chemistry II                | 3   |        | (Elective)                 | (Elective)                     | 3   |        |
| CHEM 1021                       | Chemistry II Lab            | 1   |        | (Elective)                 | (Elective)                     | 3   |        |
| PHYS 3272                       | Physical Instrumentation I  | 2   |        |                            |                                |     |        |
| (Elective)                      | (Elective)                  | 2   |        |                            |                                |     |        |
| <b>Total Hours:</b>             |                             | 15  |        | <b>Total Hours:</b>        |                                | 15  |        |
| Year 4                          |                             |     |        |                            |                                |     |        |
| Fall Semester                   |                             |     |        | Spring Semester            |                                |     |        |
| Course No.                      | Course Name                 | Hrs | Gen Ed | Course No.                 | Course Name                    | Hrs | Gen Ed |
| PHYS 3282                       | Physical Instrumentation II | 2   |        | PHYS 4693                  | Research in Physics - Capstone | 3   |        |
| (Elective)                      | (Elective)                  | 3   |        | PHYS 3103                  | Thermal Physics                | 3   |        |
| (Elective)                      | (Elective)                  | 3   |        | PHYS 4553                  | Quantum Mechanics              | 3   |        |
| (Elective)                      | (Elective)                  | 3   |        | (Elective)                 | (Elective)                     | 3   |        |
| (Gen Ed)                        | (General Education Course)  | 3   | X      | (Elective)                 | (Elective)                     | 3   |        |
| <b>Total Hours:</b>             |                             | 14  |        | <b>Total Hours:</b>        |                                | 15  |        |
| <b>Total Upper-Level Hours:</b> |                             | 45  |        | <b>Total Degree Hours:</b> |                                | 120 |        |

Students requiring developmental course work based on low entrance exam scores (ACT, SAT, ASSET, COMPASS) may not be able to complete this program of study in eight (8) semesters. Developmental courses do not count toward total degree hours. **Students having completed college level courses prior to enrollment will be assisted by their advisor in making appropriate substitutions. In most cases, general education courses may be interchanged between semesters.** A minimum of 45 hours of upper-level credit (3000-4000 level) is required for this degree. Mandatory state and institutional assessment exams will be required during your degree program. **Failure to participate in required assessments may delay graduation.**

**Additional Graduation Requirements:**

- Completion of HIST 2763 or HIST 2773 or POSC 2103
- Completion of SCOM 1203
- English Proficiency (Grade of C or better in ENG 1003 and ENG 1013)
- 2.00 GPA in Major
- 2.00 GPA at ASU
- 2.00 GPA Overall
- Maximum of 31 credit hours via correspondence/extension/examination//PLA/Military/CLEP (30 hrs) or similar means
- 45 JR/SR Hours after completing 30 hours
- 120 Total Credit Hours
- 18 of last 24 hours must be ASU-Jonesboro courses
- Minimum of 57 hours from 4-year institutions
- 32 Resident Hours if completing second degree