PHYSICS MAJOR, B.S. – 2021-2022

Note: For those students who have not completed AP calculus BC with a score of 5, Physics 8 is strongly recommended before attempting any other physics course.

PREPARATION FOR THE MAJOR

<table>
<thead>
<tr>
<th>COURSE DETAILED LIST</th>
<th>UNITS TO COMPLETE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics 21-22-23-24-25</td>
<td>20</td>
</tr>
<tr>
<td>Physics 20AL-BL-CL or 13AL-BL-CL</td>
<td>6</td>
</tr>
<tr>
<td>Physics 29</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics 2A or 3A, 2B or 3B, 4A-B, 6A-B</td>
<td>24-26</td>
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</tbody>
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Two science electives, chosen from the following or in consultation with a faculty advisor:
Astronomy 1, 2, Chemistry 1A or 2A, 1B or 2B, Earth 2, 9, 11, 20, EEMB 22 or W22 or MCDB 20, PSTAT 10 | 6-9 |

UPPER-DIVISION MAJOR

54 UD Physics units are required, distributed as follows:

A. Physics 101 | 4 |
B. Physics 104 | 4 |
C. Physics 110A-B | 8 |
D. Physics 115A-B-C | 12 |
E. Physics 119A | 4 |
F. Physics 127AL | 4 |
G. Physics 128AL | 4 |
H. UD Physics elective laboratory course, chosen from the following:
   Physics 127BL, 129L or 134L | 4 |
I. UD Physics elective courses, with no more than 4 units in the following courses (in addition to the course used in Area H):
   Physics 127BL, 129L, 134L, 142L, 143L, 144L, 145L, 199 | 10 |

(With consent of the department chair, up to 8 units of UD Chemistry, Earth Science, EEMB, Engineering, Geography, Mathematics, or MCDB may be applied to Areas H and I)

Courses taken: ________________________________________

A grade of C- or above is required in order to continue the sequence of upper division courses.

MAJOR REGULATIONS

PREREQUISITES .......................................................... Check the General Catalog for the prerequisites to all listed courses.
P/NP GRADING OPTION ........................................ Not allowed for any major course (Prep or UD major), including courses applied to the major from other departments, with the exception of up to 8 units from the following Physics courses: 142L, 143L, 144L, 145L, 198, 199.
SUBSTITUTIONS ....................................................... In the major requirements permissible only by petition to the department chair and dean.
RESIDENCE REQUIREMENTS .................................. At least 20 UD units in major while in residence at UCSB.
G.P.A REQUIREMENTS ............................................... At least 2.0 overall UC average in all upper-division major courses and all courses (Prep and UD) for the major.
DOUBLE MAJORS ..................................................... With the approval of each department chairperson, up to a total of 8 units may be applied simultaneously to both UD majors.