BS PHYSICS

NAME___________________________________________
STUDENT ID_____________________________________
CONCENTRATION________________________________
MINOR___________________________________________

Major GPA at least 2.00________   [ ] YES  [ ] NO
US Cultural Pluralism Met++      [ ] YES  [ ] NO
60 Units Upper Division Met    [ ] YES  [ ] NO
GWR Met [ ] YES  [ ] NO
Upper Div GE Met [ ] YES  [ ] NO
Free Electives Met [ ] YES  [ ] NO

2007-2009  updated 07/12/07 Units Required 180

<table>
<thead>
<tr>
<th>DEGREE DATE</th>
<th>Earned Hours</th>
<th>Quality Hours</th>
<th>Quality Points</th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transfer</td>
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<tr>
<td>Cal Poly</td>
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<tr>
<td>Transcript Totals</td>
<td>&lt;= Units that are NOT Degree Applicable</td>
<td>&lt;= Degree Applicable Units</td>
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Note: “Lab only” courses may NOT be taken CR/NC.

Major Courses (112)  Units  Grade  GpaPts

CHEM 127 General Chemistry I  4
CHEM 128 General Chemistry II  4
MATH 141 Calculus I (B1)*  4
MATH 142 Calculus II (B1)*  4
MATH 143 Calculus III  4
MATH 241 Calculus IV  4
MATH 244 Linear Analysis I  4
MATH 304 Vector Analysis  4
MATH 344 Linear Analysis II  4
PHYS 141 General Physics IA  4
PHYS 132 General Phys II (B3&B4)*  4
PHYS 133 General Physics III  4
PHYS 202 Physics on the Computer  4
PHYS 206 Instru in Exper Physics  3
PHYS 211 Modern Physics I  4
PHYS 212 Modern Physics II  4
PHYS 256 Elec Measurements Lab  1
PHYS 301 Thermal Physics I  3
PHYS 302 Classical Mechanics I  4
PHYS 323 Optics  5
PHYS 340 Quantum Physics Lab I  2
PHYS 341 Quantum Physics Lab II  1
PHYS 342 Quantum Physics Lab III  2
PHYS 405 Quantum Mechanics I  4
PHYS 408 Electrod Fields & Waves I  4
PHYS 461 or PHYS 463  2
PHYS 462 or PHYS 464  2
Advanced Physics electives or Concentration courses (see back)  19

General Education (GE)  60

Minimum of 12 units required at the 300-400 level.

Area A Communication  12
A1 ENGL 133/134  4
A2 COMS 101/102  4
A3 Reason, Argu, & Writ  4

Area B Science and Mathematics  4
B2 Life Science  4

Area C Arts and Humanities  20
C1 Literature  4
C2 PHIL 230/231  4
C3 Fine/Performing Arts  4
C4 Upper-division elective  4
C1-C4 elective  4

Area D/E Society and the Individual  20
D1 Amer Experience (40404)  4
D2 Political Economy  4
D3 Comp Social Institutions  4
D4 Self Develop (CSU Area E)  4
D5 Upper-division elective  4

Area F Technology (upper div)  4
Add'l GE Units (if needed)  

O = Work in progress  @ = possible credit by Department review
( ) = not allowed for degree credit  # = GE Certification

Electives  8
ADVANCED PHYSICS ELECTIVES OR CONCENTRATION

Select either the advanced physics electives or one of the concentrations.

Advanced Physics Electives

Select one of the following: PHYS 424 (3) or MATH 418 (4).

In addition, select courses at the 300 or 400 level with the prefixes PHYS, MATH, GEOL, STAT, or CSC (but not CSC 302 nor CSC 310). One of the following may also be chosen: CSC 101 (4), 231 (2), 234 (3). At least 9 of these elective units must have the PHYS prefix. All courses must be taken for a letter grade.

For students anticipating an industrial career PHYS 357 (3), 412 (3), 413 (3), 423 (4), and 452 (1) are suggested electives.

For students anticipating graduate work in physics PHYS 303 (3), 401 (3), 406 (3), 409 (3), 424 (3), and MATH 408 (4) are suggested electives. In addition, PHYS 357 (3) is suggested for students who anticipate becoming experimental physicists.

Electronics Concentration

Students will not be allowed to enroll in EE 228 until they have a) completed PHYS 357 and MATH 344, and b) received the approval of advisors in both Physics and Electrical Engineering. Students will then be allowed to enroll in EE courses with physics courses substituting for EE prerequisites.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>EE 228 Continuous-Time Signals &amp; Systems</td>
<td>4</td>
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<tr>
<td>EE 302 Classic Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>EE 328 Discrete Time Signals &amp; Systems</td>
<td>3</td>
</tr>
<tr>
<td>EE 342 Classical Control Systems Lab</td>
<td>1</td>
</tr>
<tr>
<td>EE 368 Signals &amp; Systems Lab</td>
<td>1</td>
</tr>
<tr>
<td>EE 336 or EE 306 &amp; EE 346</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 357 Advanced Instr in Experi Physics</td>
<td>3</td>
</tr>
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Electro-optics Concentration

Students will not be allowed to enroll in EE 228 until they have a) completed PHYS 357 and MATH 344, and b) received approval of advisors in both Physics and Electrical Engineering. Students will then be allowed to enroll in EE courses with physics courses substituting for EE prerequisites.

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<td>EE 228 Continuous-Time Signals &amp; Systems</td>
<td>4</td>
</tr>
<tr>
<td>EE 403 Fiber Optics Communication</td>
<td>3</td>
</tr>
<tr>
<td>EE 418 Photonic Engineering</td>
<td>3</td>
</tr>
<tr>
<td>EE 443 Fiber Optics Lab</td>
<td>1</td>
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<tr>
<td>EE 458 Photonic Engineering Lab</td>
<td>1</td>
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<tr>
<td>PHYS 357 Advanced Instr in Experi Physics</td>
<td>3</td>
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