ADT PHYSICS B.S. –	Sem.	
60 Sem. Units	Units	Community College Courses
		CSU general education certification requires completion of all
CSUGE or IGETC	39	requirements in Areas A through E, approximately 39 units
AREA D REQUIREMENT:		US-1:
US History, Constitution & American Ideals Code		US-2:
<u>Requirement</u>	3-9	US-3:
		DIV:
Diversity/Social Justice/Sustainability		SJ:
Can be fulfilled in area C or D	3-9	SUS:
Second Composition (Comp II) Can be fulfilled with A3		
Any Composition course with ENGL 100 as a prerequisite	3	
The following areas are for the CID TN	AC/Courses d	and matching Community College Courses
Major Core (C-ID)	24	Community College Courses
PHYS 205 - Calculus-Based Physics for Scientists and	Counted	
Engineers: A (4)	in GE	
PHYS 210 - Calculus-Based Physics for Scientists and		
Engineers: B (4)	4	
PHYS 215 - Calculus-Based Physics for Scientists and		
Engineers: C (4)	4	
MATH 210 - Single Variable Calculus I – Early	Counted	
Transcendentals (4)	in GE	
MATH 220 - Single Variable Calculus II – Early		
Transcendentals (4)	4	
MATH 230 - Multivariable Calculus (4)	4	
Total Units ADT *PHYSICS*	60	

PLEASE NOTE: This page assumes Semester Units.

CSUEB: B.A. PHYSICS	Semester	NOTES
Complete Degree in 60 Semester Units	UNITS	
		e should be fulfilled at the Community College, College, they must be completed at CSU East Bay
US History, Constitution & American Ideals	0-9	
1) First Category US-1	0-3	
2) Second Category US-2	0-3	
3) Third Category US-3	0-3	
		t be taken at CSU East Bay
Upper Division GE		
See catalog	9	CSUEB COURSES
	• •	ion General Education pattern must have a topic/learning outcome
oriented toward one of the following	ng topic area	s (overlays): Diversity, Social Justice, or Sustainability.
Area B6 Upper Division Science course	3	Course: OVERLAY:
Area C4 Upper Division Humanities course	3	Course: OVERLAY:
Area D4 Upper Division Social Sciences course	3	Course: OVERLAY:
Lower Division Core	6	
MATH 210 - Linear Algebra with Differential		
Equations Units: 3	3	
PHYS 230 – Physical Reasoning	3	
Upper Division Core	18	
PHYS 330 - Analytic Mechanics Units: 3	3	
PHYS 340 - Statistical Mechanics and		
Thermodynamics Units: 3	3	
PHYS 350 - Quantum Mechanics I Units: 3	3	
PHYS 380 - Advanced Laboratory I: Electronics		
Units: 3	3	
PHYS 381 - Advanced Laboratory II: Experimental Methods Units: 3	2	
PHYS 450 - Electromagnetism I Units: 3	3	
Electives	3	
Choose a minimum of 6 units from the		
following:	6+	
CHEM 100 - Introduction to College Chemistry 3		G.E./G.R. Area: B1, B3
CHEM 110 - General Chemistry for Engineering		
Units: 3		G.E./G.R. Area: B1, B3
CHEM 111 - General Chemistry I Units: 5		G.E./G.R. Area: B1, B3
CHEM 112 - General Chemistry II Units: 5		
CS 100 - Programming for Everyone Units: 3		
CS 101 - Computer Science I Units: 4		
PHYS 104 - Musical Acoustics Units: 4		G.E./G.R. Area: B1, B3
PHYS 105 - How Things Work Units: 3		G.E./G.R. Area: B1
PHYS 106 - Physics for Future Leaders Units: 3		G.E./G.R. Area: B1; Sustainability
PHYS 107 - Science of Energy Units: 3		G.E./G.R. Area: B1; Sustainability

PHYS 108 - Astronomy of Ancient Cultures Units:		
3		G.E./G.R. Area: B1; Diversity
PHYS 115 - Elementary Physics Units: 3		G.E./G.R. Area: B1, B3
PHYS 138 - Descriptive Astronomy Units: 3		G.E./G.R. Area: B1
PHYS 139 - Astronomy Laboratory Units: 1		G.E./G.R. Area: B3
PHYS 303 - Biophysics Units: 3		G.E./G.R. Area: B6
PHYS 337 - Extrasolar Planets Units: 3		G.E./G.R. Area: B6
PHYS 338 - The Cosmos Units: 3		G.E./G.R. Area: B6
PHYS 339 - Stars and Galaxies Units: 3		G.E./G.R. Area: B6
PHYS 351 - Quantum Mechanics II Units: 3		
PHYS 360 - Selected Topics Units: 1		
PHYS 451 - Electromagnetism II Units: 3		
PHYS 460 - Astrophysics Units: 3		
PHYS 461 - Atomic Physics Units: 3		
PHYS 462 - Solid State Physics Units: 3		
PHYS 463 - Particle Physics Units: 3		
PHYS 480 - Advanced Laboratory III: Modeling,		
Design, and Analysis Units: 3		
PHYS 481 - Advanced Laboratory IV: Projects		
Units: 3		
PHYS 497 - Issues in Physics Units: 3		
SCI 308 - Hands-On Science Teaching Units: 1		
ADDITIONAL COURSE to reach 60 Units		These courses may be additional Major Courses
	21	or prerequisites not taken at the Community College
lf needed		
Total Semester Units at CSUEB	60	60

		FIRST SEMESTER JUNIOR YEAR	
		Register to take the University Writing Skills Requirement	
UDGE B6	COURSE	OVERLAY	
LD MAJOR	MATH 210	LINEAR ALGEBRA WITH DIFFERENTIAL EQUATIONS	
UD MAJOR	PHYS 350	QUANTUM MECHANICS I	
ELECTIVE			
ELECTIVE			
		TOTAL:	1
		SECOND SEMESTER JUNIOR YEAR	
		TAKE THE UNIVERSITY WRITING SKILLS TEST	
UDGE D4	COURSE	OVERLAY	
LD MAJOR	PHYS 230	Physical Reasoning	
UD MAJOR	PHYS 330	ANALYTIC MECHANICS	
ELECTIVE			
ELECTIVE			
		TOTAL:	1
		THIRD SEMESTER SENIOR YEAR	
	•	that you have completed the University Writing Skills Requirement.	
C	heck your MyCSU	EB "Degree Audit Report" (DAR) and email any discrepancies to The ADT ADVISER.	
UDGE C4	COURSE	OVERLAY	
UD MAJOR	PHYS 450		
	11113 450	ELECTROMAGNETISM I	
UD MAJOR	PHYS 380		
		ELECTROMAGNETISM I	
UD MAJOR	PHYS 380	ELECTROMAGNETISM I ADVANCED LABORATORY I: ELECTRONICS	
UD MAJOR UD MAJOR ELECTIVE	PHYS 380	ELECTROMAGNETISM I ADVANCED LABORATORY I: ELECTRONICS	
UD MAJOR	PHYS 380	ELECTROMAGNETISM I ADVANCED LABORATORY I: ELECTRONICS PHYS ELECTIVE	1
UD MAJOR ELECTIVE	PHYS 380 PHYS	ELECTROMAGNETISM I ADVANCED LABORATORY I: ELECTRONICS PHYS ELECTIVE TOTAL:	
UD MAJOR ELECTIVE See the Al	PHYS 380 PHYS	ELECTROMAGNETISM I ADVANCED LABORATORY I: ELECTRONICS PHYS ELECTIVE TOTAL: FOURTH SEMESTER SENIOR YEAR	
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UD MAJOR ELECTIVE See the AI UD MAJOR UD MAJOR UD MAJOR	PHYS 380 PHYS DT ADVISER and ap PHYS 381 PHYS 340	ELECTROMAGNETISM I ADVANCED LABORATORY I: ELECTRONICS PHYS ELECTIVE TOTAL: FOURTH SEMESTER SENIOR YEAR oply for graduation through MyCSUEB by the posted deadline, available at Important Date ADVANCED LABORATORY II: EXPERIMENTAL METHODS STATISTICAL MECHANICS & THERMODYNAMICS	
UD MAJOR ELECTIVE See the Al UD MAJOR UD MAJOR UD MAJOR ELECTIVE	PHYS 380 PHYS DT ADVISER and ap PHYS 381 PHYS 340	ELECTROMAGNETISM I ADVANCED LABORATORY I: ELECTRONICS PHYS ELECTIVE TOTAL: FOURTH SEMESTER SENIOR YEAR oply for graduation through MyCSUEB by the posted deadline, available at Important Date ADVANCED LABORATORY II: EXPERIMENTAL METHODS STATISTICAL MECHANICS & THERMODYNAMICS	
UD MAJOR ELECTIVE	PHYS 380 PHYS DT ADVISER and ap PHYS 381 PHYS 340	ELECTROMAGNETISM I ADVANCED LABORATORY I: ELECTRONICS PHYS ELECTIVE TOTAL: FOURTH SEMESTER SENIOR YEAR oply for graduation through MyCSUEB by the posted deadline, available at Important Date ADVANCED LABORATORY II: EXPERIMENTAL METHODS STATISTICAL MECHANICS & THERMODYNAMICS	1