

# STEM EDUCATION: PHYSICS BA PATHWAY

Required Course Listings

## Required Course Listings

Introduction to Computer Science I\*  
 Introduction to Dmar  
 Calculus II\*  
 Calculus III\*  
 University Physics I\*  
 General Physics I Lab\*  
 University Physics II\*  
 General Physics II Lab\*  
 University Physics III\*  
 General Physics III Lab\*  
 Astronomy  
 Modern Physics\*†  
 Human Body Mechanics\*  
 Advanced Mechanics\*†  
 Physics Seminar I  
 Advanced Physics Lab I\*  
 Electromagnetic Theor HY

### Major Requirements (120 units)

C	C	T	U
CPTG 121	Introduction to Computer Science I*		4
MATH 131	Introduction to Dmar		4
MATH 132	Calculus II*		4
MATH 133	Calculus III*		4
PHYS 231B	University Physics I*		4
PHYS 231L	General Physics I Lab*		1
PHYS 232B	University Physics II*		4
PHYS 232L	General Physics II Lab*		1
PHYS 233B	University Physics III*		4
PHYS 233L	General Physics III Lab*		1
PHYS 304	Astronomy		4
PHYS 315	Modern Physics*†		4
PHYS 326	Human Body Mechanics*		4
PHYS 327	Advanced Mechanics*†		4
PHYS 385	Physics Seminar I		1
PHYS 415	Advanced Physics Lab I*		2
PHYS 481	Electromagnetic Theor	HY	





## Additional Supporting Summaries

Summary of Units in Guided Pathway

Total Units in Pathway (not counting OOX)	190
Total Major Units	54
Total Cognate Units	22
Total Major + Cognate Units	76
Total Upper Division Units	68
Total Upper Division Theme Units	16
Count of Service Learning Courses	3
Major Units also as U Studies	4
Cognate Units also as U Studies	8
Credits Below Undergraduate Level	0
Credential Course Units	44

U.Studies Notes	La Sierra Course	La Sierra Title	sum La Sierra Units	Upper Div.	Requirement
Foundational I -First Year Seminar	UNST 101	First Year Seminar	3	FALSE	4 (foundational studies)
Foundational IIA - Rhetoric College Writing	ENGL 111	College Writing I	3	FALSE	4 (foundational studies)
Foundational IIA - Rhetoric College Writing	ENGL 112	College Writing II	3	FALSE	4 (foundational studies)
Foundational IIA - Rhetoric College Writing	ENGL 113	College Writing III	3	FALSE	4 (foundational studies)
Foundational IIB - Upper-division Rhetoric	PHYS 326	Human Body Mechanics	4	TRUE	1 (major)
Foundational IIB - Upper-division Rhetoric	PHYS 385	Physics Seminar I	1	TRUE	1 (major)
Foundational IIB -					

