Articulation Agreement by Major
Effective during the 12-13 Academic Year

To: **CSU Los Angeles** | From: **Glendale Community College**
Quarter | Semester

====Physics - BS====

CSULA is an impacted campus. Campus impaction requires that we give priority admission consideration to first time freshman applicants and upper division transfers from within our local area. For additional information regarding impaction please visit http://www.calstatela.edu/univ/admiss/impaction/

University Requirement:

ENGL 102	Composition II	(4)	ENGL 104	Critical Thinking and Argumentation	(3)

A minimum C grade is required

The Bachelor of Science degree, which requires a total of 187 units, may be used as preparation for graduate work or as a qualifying degree for professional employment. Selection of electives in astronomy provides substantial background for students planning graduate study in that field.

Programs in physics are built on a foundation of high school studies in mathematics and physical sciences. For completion of a Bachelor of Science degree program in 12 quarters, high school preparation is recommended in physics, chemistry, geometry, trigonometry, and algebra (two years).

In planning their university programs, students who wish to prepare for graduate study in physics are advised to include 12 units of French, German, or Russian, a portion of which will earn general education credit. Student participation in research is strongly encouraged.

General Program
Requirements for the Major (115)
The major consists of 115 units in physics and related fields, of which 50 are in lower division and 65 in upper division courses. Students must earn a grade of C or higher in all courses used to meet major requirements.

Lower Division Required Courses (50 units)

PHYS 211	Mechanics	(5)	PHY 101	Engineering Physics w/Lab	(5)
PHYS 212	Waves, Optics, and Thermodynamics	(5)	PHY 103	Engineering Physics w/Lab	(5)
PHYS 213	Electricity and Magnetism	(5)	PHY 102	Engineering Physics w/Lab	(4)
PHYS 214	Modern Physics	(4)			

Physics - BS (continued)

CHEM 101 &	General Chemistry I	(5)	CHEM 101 &	General Chemistry w/Lab	(5)
CHEM 102 &	General Chemistry II	(5)	CHEM 102	General Chemistry w/Lab	(5)
CHEM 103	General Chemistry III	(5)			
MATH 206 &	Calculus I: Differentiation	(4)	MATH 103 &	Calculus and Analytic Geometry	(5)
MATH 207 &	Calculus II: Integration	(4)	MATH 104 &	Calculus and Analytic Geometry	(5)
MATH 208 &	Calculus III: Sequences, Series and Coordinate Systems	(4)	MATH 105	Calculus and Analytic Geometry	(4)
MATH 209	Calculus IV: Several Variables	(4)			

Option in Biophysics

The Bachelor of Science degree in Physics, Biophysics option, may be used as preparation for graduate work in biophysics or as a degree for professional employment.

Requirements for the Major (122 units)

The major with this option consists of 122 units in physics, biology, and related fields, of which 65 are in lower division and 51 in upper division courses. Students must earn a grade of C or higher in all courses used to meet major and option requirements.

Lower Division Required Courses (65 units)

PHYS 211	Mechanics	(5)	PHY 101	Engineering Physics w/Lab	(5)
PHYS 212	Waves, Optics, and Thermodynamics	(5)	PHY 103	Engineering Physics w/Lab	(5)
PHYS 213	Electricity and Magnetism	(5)	PHY 102	Engineering Physics w/Lab	(4)
PHYS 214	Modern Physics	(4)			
BIOL 100A	Introductory Biology I	(5)			
BIOL 100B	Introductory Biology II	(5)			
CHEM 101 &	General Chemistry I	(5)	CHEM 101 &	General Chemistry w/Lab	(5)
CHEM 102 &	General Chemistry II	(5)	CHEM 102	General Chemistry w/Lab	(5)
CHEM 103	General Chemistry III	(5)			

Physics - BS (continued)

MATH 206 &	Calculus I: Differentiation	(4)	MATH 103 &	Calculus and Analytic Geometry	(5)
MATH 207 &	Calculus II: Integration	(4)	MATH 104 &	Calculus and Analytic Geometry	(5)
MATH 208 &	Calculus III: Sequences, Series and Coordinate Systems	(4)	MATH 105	Calculus and Analytic Geometry	(4)
MATH 209	Calculus IV: Several Variables	(4)			

END OF MAJOR