

Associates Degree for Transfer: PHYSICS

Upon completion of this degree, students will be prepared to transfer into the CSU system to pursue a BA/BS in Physics or a related major.

FALL SEMESTER (Year 1)	Units	Major / GE Area	Recommendations/Advising Notes
ENGL 1A – Composition and Reading	4	A2	English 1A for STEM
MATH 1A – Single Variable Calculus & Analytical Geometry	4	Major GE Area B4	Math 1A has a prereq of pre-calc. or appropriate. Math courses must be taken in sequence
PHYSICS 2A – General Physics I	4	Major GE Area B1 & B3	Physics 2A has a prereq Math 8A (1 st half of pre-calc). High School Physics with a grade of B or better may replace Physics 2A.
GUID 6 – Life Skills for Higher Ed	2	GE area E2	May take any course in GE Area E2
KIN 62A – Individuals Cardiovascular Fitness	1	GE area E1	May take any Kin activity course
15			Meet with your counselor to complete a comprehensive education plan Connect with STEM Center to explore opportunities

SPRING SEMESTER (Year 1)	Units	Major / GE Area	Recommendations/Advising Notes
MATH 1B – Single Variable Calculus & Analytic Geometry	4	Major	Math 1B has a prerequisite of Math 1A. Math courses must be taken in sequence
PHYSICS 4A - Mechanics	4	Major	Physics 4A has a prerequisite of Math 1A and Physics 2A or equivalent placement. Math and Physics courses must be taken in sequence
CMUN 10 – Small Group Communication	3	GE Area A1	May take any course in GE area A1
ART 6 – Art Appreciation	3	GE Area C1	May take any course in CSU area C1
14			Meet with your counselor to review and update your education plan. Explore options in STEM for work experience and internships for summer

SUMMER SEMESTER (Year 1)	Units	Major / GE Area	Recommendations/Advising Notes
ENGL 1C – Critical Reasoning and Writing	3	GE Area A3	May take Phil 4 instead of Engl 1C. Engl 1C and Phil 4 have a prereq of Engl 1A
3			Meet with your counselor if needed

FALL SEMESTER (Year 2)	Units	Major / GE Area	Recommendations/Advising Notes
MATH 1C – Multivariable Calculus	4	Major	Math 1C has a prereq of Math 1B. Math courses must be taken in sequence
Physics 4B – Electricity and Magnetism	4	Major	Physics 4B has a prereq of Math 1B and Physics 4A. Math and Physics courses must be taken in sequence
HIST 1 – History through Reconstruction	3	GE Area D	May take Hist 2 or Pols 1. Course will satisfy 3 units of American Inst for CSUs
HUM 3 – Intro to Cinema	3	GE Area C2	Hum 3 for STEM. May take any course in GE Area C2
Sociology 1A – Intro to Sociology	3	GE Area D	May take any course in GE Area D
17			Meet with your counselor to review and update your education plan Submit application for transfer (10/1-11/30)

SPRING SEMESTER (Year 2)	Units	Major / GE Area	Recommendations/Advising Notes
PHYSICS 4C – Heat, Optics and Modern Physics	4	Major	Physics 4C has a prereq of Math 1C and Physics 4B and coreqs of Math 2 and 2C. Math 2 and 2C are not required for all transfer students. See counselor to decide. Math and Physics courses must be taken in sequence
ANTH 1 – Intro to Physical Anthropology	3	GE Area B2	May take any course in GE Area B2
POLS 1 – Intro to American Government	3	GE Area D	May take any course in Area D
THEA 3 – El Teatro Campesino	3	GE Area C1	May take any course in GE Area C1 or C2
13			Apply for Graduation

**Every student's needs and circumstances are unique and this map does not replace an Individualized Education Plan. Please see a Gavilan College Counselor to establish a plan that will best serve your specific goals and timeline.*

CSU Bachelor's Degree: Physics/Applied Physics/Astrophysics/Physics Education

Students will gain the necessary in-depth understanding of calculus and physics, including the general study of properties of matter, mechanics, heat and sound, with related laboratory experiments.

Sample Dream Futures: astronomy, chemistry engineering, environmental sciences, or green technology.

TITLES AND CAREER PATHS

Physicist / Oceanographer / Environmental Analyst / Meteorologist /
Astronomer / Geophysicist / Seismologist / Data Scientist / Engineer

CAREER AND LABOR MARKET TOOLS

ROADTRIP NATION explore interests and discover career pathways associated with your unique ambitions and skills

<https://roadtripnation.com/edu/gavilan> *use Gavilan's Membership Code: GAVILAN9

EUREKA provides exploration tools to allow students to complete career assessments and research hundreds of college majors and associated careers

<https://eureka.org> *use Gavilan College Site Code ID: SSYJLNM

OCCUPATIONAL OUTLOOK HANDBOOK provides information on job descriptions, work environment, Education, pay and job outlook

<https://www.bls.gov/ooh/>

PROFESSIONAL ORGANIZATIONS

American Association of Physics Teachers www.aapt.org

American Institute of Physics www.aip.org

Society of Physics Students www.spsnational.org