

Science and Health Interest Area



PHYSICS – ASSOCIATE IN SCIENCE FOR TRANSFER SAMPLE SEQUENCE MAP

The Associate in Science for Transfer (AS-T) is designed to streamline transfer admission to the California State University (CSU) system. If you are considering transfer to a UC, private, out-of-state college, or a specific CSU campus, consult with a counselor regarding the transfer requirements of that institution. A personalized education plan is necessary to meet the unique goals of each student and transfer institution.

0 -15 UNITS		Pre- or co-reqs	Credit	IGETC	CSU
Semester 1	Area IA: English Composition: <i>ENGL 122 – First-Year College Composition and Reading</i>	Placement	3	IA	A2
	Physical Science and Biological Science w/o Lab: <i>PHYS 129 – Introductory Physics for Engineers (required if not had 1 year of HS physics)</i>	Co-req MATH 192	4	5A/B	B2/B3
	Mathematical Concepts: MATH 192 – Analytic Geometry and Calculus I	MATH 191	5	2	B4
	Social and Behavioral Science		3	4	D
		Total	15		

16 – 30 UNITS		Pre- or co-reqs	Credit	IGETC	CSU
Semester 2	Arts and Humanities		3	3	C1/C2
	Physical Science and Biological Science WO/LAB		3	5A/B/C	B1/B3
	Critical Thinking – English Composition		3	IB	A3
	MATH 193 – Analytic Geometry and Calculus II	MATH 192	5	2	B4
	PHYS 130 – Physics for Engineers and Scientists A: Mechanics and Wave Motions	PHYS 129	4	5A, 5B	B1
		Total	18		

31 – 45 UNITS		Pre- or co-reqs	Credit	IGETC	CSU
Semester 3	Arts and Humanities		3	3	C1/C2
	Social and Behavioral Science		3	4	D
	MATH 292 – Analytic Geometry and Calculus III	MATH 193	5	2	B4
	PHYS 230 – Physics for Engineers and Scientists B: Heat and Electro Magnetism	PHYS 130 co: MATH 292	4	5A, 5B	B1
		Total	15		

46 – 60 UNITS		Pre- or co-reqs	Credit	IGETC	CSU
Semester 4	PHYS 231 – Physics for Engineers and Scientists C: Optics and Modern Physics	PHYS 230, MATH 294	4	5A, 5B	B1
	Arts and Humanities		3	3	C1/C2
	Social and Behavioral Science		3	4	D
	CSU Lifelong Learning Graduation requirement:		3	CSU GR	-
	Oral Communication		3	IC	AI
		Total	16		

Program total: 60

Students earning this degree must complete 60 CSU-transferable units. Students must also complete either CSU GE or IGETC (including the Area 1C requirement) General Education pattern. Consult with a counselor to see which pattern is best for you and for specific recommendations about courses that best meet your education goals, particularly related to transfer requirements. Not all courses are offered every term. See the Catalog and Schedule of Classes for more details.

This sheet is intended as a tool for students that are exploring and/or testing out their major options. If you know what major you want to focus on, the classes you choose should be in line with your certificate/degree/transfer goals and you should choose your courses in consultation with a counselor.

<p>Recommended First Semester Science and Health</p> <p><i>"I am interested in understanding the natural world and improving people's health."</i></p>
<p>Select 1 English Course</p>
<p>Suggested English Courses</p> <ul style="list-style-type: none"> • ENGL 122* - First-Year College Composition and Reading (Support Course ENGL 120) <li style="text-align: center;"><i>or</i> • ENGL 122A* - First-Year College English for Multilingual Students (Support Course ENGL 120A)
<p>Select 1 Math Course</p>
<p>Suggested Math Courses</p> <ul style="list-style-type: none"> • Math 121 - Plane Trigonometry (Support Course MATH 021) <li style="text-align: center;"><i>or</i> • Math 142* - Statistics (Support Course MATH 042) <li style="text-align: center;"><i>or</i> • Math 191* - Pre-Calculus <li style="text-align: center;"><i>or</i> • Math 192* - Analytic Geometry and Calculus I
<p>Select 1 Meta-Major Course</p>
<p>Life Science</p> <ul style="list-style-type: none"> • BIOSC 102* - Fundamentals of Biological Science With Laboratory • BIOSC 171* - Environmental Science with Laboratory • HORT 110 - Introduction to Horticulture and Plant Science
<p>Physical Science</p> <ul style="list-style-type: none"> • CHEM 108* - Introductory Chemistry • PHYS 120* - General College Physics I or PHYS 129* - Introductory Physics for Engineers • ENGIN 110 - Introduction to Engineering • GEOG 120* - Physical Geography + GEOG 121* - Physical Geography Laboratory • GEOG 125 - Introduction to Geographic Information Systems (GIS) • GEOL 121* - Earth and Life Through Time + GEOL 124* - Earth and Life Through Time Laboratory • OCEAN 101* - Fundamentals of Oceanography or OCEAN 102* - Fundamentals of Oceanography w/ Lab
<p>Health and Wellness</p> <ul style="list-style-type: none"> • ADS 170 - Introduction to Codependency and Family Issues • CULN 110 - Orientation to Hospitality • HSCI 124 - Health and Wellness or HSCI 130* - Introduction to Public Health • KINES 210 - Introduction to Kinesiology • NUTRI 160 - Nutrition: Science and Applications <p>*IGETC approved course</p>