

COURSE SEQUENCE MAP

PHYSICS AS-T

Suggested course sequence for full-time student

	Course # and Title	Pre/Co-req	Units	IGETC	CSU	Semester Offered
Semester 1	ENGL 122 – Freshman English	Placement or pre-req	3	1A	A2	FA, SP, SU
	MATH 192 – Analytic Geometry and Calculus I	MATH 191	5	2	B4	FA, SP, SU
	PHYS 129 – Introductory Physics for Engineers (required if not had 1 year of HS physics)		4	3A	C1	FA, SP
	Arts course		3	3A	C1	
		Total	15			
Semester 2	MATH 193 – Analytic Geometry and Calculus II	MATH 192	5	2	B4	FA, SP, SU
	PHYS 130 – Physics for Engineers and Scientists A: Mechanics and Wave Motions	PHYS 129	4	5A, 5B	B1	FA, SP, SU
	Social Science course		3	4	D	
	Critical Thinking course		3	1B	A3	
		Total	15			
Semester 3	MATH 292 – Analytic Geometry and Calculus III	MATH 193	5	2	B4	FA, SP, SU
	PHYS 230 – Physics for Engineers and Scientists B: Heat and Electro Magnetism	PHYS 130 co: MATH 292	4	5A, 5B	B1	FA, SP, SU
	Oral Communication course		3	1C	A1	
	Humanities course		3	3B	C2	
		Total	15			
Semester 4	PHYS 231 – Physics for Engineers and Scientists C: Optics and Modern Physics	PHYS 230, MATH 294	4	5A, 5B	B1	FA, SP
	Arts or Humanities course		3	3A or 3B	C1 or C2	
	Two Social Science course		6	4	D	
	CSU requires Life Long Learning elective		3		E	
	Program Total		60			

There are 3 General Education patterns available and this map shows the two transfer patterns (IGETC and CSU) which require 60 transferable units. Consult with a Counselor to see which pattern is best for you and for specific recommendations about courses that will best meet your educational goals, particularly related to transfer requirements. Not all courses on the map are offered every term. Consult the Catalog and the Schedule of Classes for more details.