

# Mechatronics Engineering 2-Year Transfer Pathway 2026-2027

This four-semester transfer pathway is for students who have completed all prerequisite courses including:

Engineering: Introduction to Engineering, Intro to Machining, Statics, Materials Sci Engineering, Engineering Graphics, Strength of Materials, Circuit Analysis, (*NOTE: Strength of Materials can be completed after transfer without delay in graduation*)

Mathematics: Calculus 1, Calculus 2, Multivariate Calculus, Differential Equations and Linear Algebra

Physical Science: General Chemistry 1 with lab, Physics for Engineers 1 and 2

Computer Science: Programming 1 (C++ or Java), and a Data Structures course

Fall Junior Courses (15)	Course or GE Title	Units	GE/Major
<b>ENGR 330</b> (prereq = ENGR 130 Statics)	Dynamics	3	Major
<b>ENGR 340</b> (prereq ENGR 260&260L, pre/coreq:CST 231& MATH 265)	Signals	3	Major
<b>ENGR 370</b> (prereq = ENGR 260&260L Circuit Analysis)	Digital Logics	3	Major
<b>Any GE area not completed previously</b>	Any GE or Eng prereq still needed	3	As needed
<b>Language other than English</b>	Any language other than English	3	GE 3B
Spring Junior Courses (14)	Course or GE Title	Units	GE/Major
<b>ENGR 301</b> (GE areas 1A, 1B, 1C and 2)	Technical Writing in Engineering	3	GWAR
<b>ENGR 310</b> (prereq ENGR 370/ pre/coreq ENGR 130)	Mechatronics	4	Major
<b>ENGR 240</b> Strength of Materials (prereq ENGR 130)	Strength of materials if not done	3	Major
<b>ENGR 375</b> (prereq ENGR 340 )	Feedback Control Systems	3	Major
Fall Senior courses (18)	Course or GE Title	Units	GE/major
<b>ENGR 380</b> (prereq ENGR 370)	Embedded Systems	3	Major
<b>ENGR 480</b> (preq ENGR 310 & pre/coreq ENGR 320)	Mechatronics Design I	3	Major
<b>ENGR 335 or 350 or ENGR 360 or 397 (check prereq)</b>	Numerical methods, Thermodynamics or Fluid Dynamics or Independent Study	3	Major
<b>ENGR Elective</b>	Engineering Elective	3	Major
<b>Upper-division service learning</b>	Any upper-division service learning	3	UDSL
<b>ENGR 320</b> (prereq ENGR 240 and 1A, 1B, 1C, and 2, pre/coreq 330)	Machine Design with upper-div GE	3	UD 5, major
Spring Senior Courses (16)	Course or GE Title	Units	GE/Major
<b>ENGR 481</b> (prereq ENGR 480)	Mechatronics Design II	3	Capstone
<b>ENGR 394</b> (prereq ENGR 130, 260, 260L)	Engineering Internship	1	Major
<b>UDC</b>	Any UDC	3	UD GE area 3
<b>Any UDD course, recommend HCOM 353 or HCOM 369 if US History not complete</b>	Any upper-division GE area D course with US history if not done	3	UD area 4 (w/ US History)
<b>Any U2&amp;3 CSU US/CA state U local govt requirement</b>	Civics- CSU American Institutions	3	US23
<b>Elective</b>	Elective if needed to reach 120 units	3	elective
<b>Total Mechatronics Transfer</b>		<b>60</b>	