TACOMA COMMUNITY COLLEGE

Fall 2025 - Summer 2026

Science, Engineering, and Math (SEM) Division Course Offerings and Prerequisites

*Note: The quarters indicated are planned offerings for 2025-2026 only. Courses may be canceled, and/or times shifted, so offerings are not guaranteed.

	Course	Title	Quarters Offered*				Prerequisite classes
			Fall	Winter	Spring	Summer	
Biology, Botany, Nutrition & Natural Science	Biol& 100	Survey of Biology		d			Proficiency in Algebra
	Biol 105	Fossils & History of Life	d	hd	hd		Proficiency in Algebra
	Biol 110	Ecology			hd		Proficiency in Algebra
	Biol 125	Biology in the Field					Proficiency in Algebra
	Biol 140	Marine Biology	d		hd		Proficiency in Algebra
	Biol& 160	General Cell Biology	d,n,hd	d,n,hd	d,n,hd	d,n,hd	Proficiency in Algebra
	Biol& 175	Human Biology w/lab	d,o	d,o,hd	d,o	o	Proficiency in Algebra
	Biol& 222	Cellular & Molecular Biology	d, hn	d	hn		Chem& 161 (minimum grade of C)
	Biol& 221	Evolution, Ecology & Biodiversity	d			hn	Chem& 162 (minimum grade of C or may be taken concurrently)
	Biol& 223	Biology of Organisms		d,hn	d		Chem& 163 (minimum grade of C or may be taken concurrently)
	Biol& 241	Human Anatomy & Phys 1	d,hn	d,hn	d,hn	d,hn	Biol& 160 (minimum grade of C) and either Chem& 121, Chem& 140, or Chem& 161 (minimum grade of C)
	Biol& 242	Human Anatomy & Phys 2	d,hn	d,hn	d,hn	d,hn	Biol& 241 (minimum grade of C)
	Biol 243	Current Advances in Human A&P					Biol& 242 (minimum grade of C) or Biol& 223 (minimum grade of C)
	Biol& 260	General Microbiology	d,n	d,n	d,n	n	Chem& 121 or higher level chemistry (minimum grade of C) AND either Biol& 160 or Biol& 222 (minimum grade of C); Chem& 131 recommended
	Biol 280	Human Cadavar Prosection			?		Biol& 241 (minimum grade of C); intructor permission.
	Bio 294	Biology Research					Biol& 221 or Biol& 222 or Biol& 242 or Biol& 260. Each with a minimum grade of C or equivalent.
	Bot 101	General Botany	d		d		Proficiency in Algebra
	Bot 179	Special Topics in Botany			d		Proficiency in Algebra
	Nut& 101	Human Nutrition	d,n,o	d,n,o	d,n,o	o	Recommended Preparation: Chem& 110, Biol& 100, or Biol& 160 (minimum grade of C)
	Nutr 250	Nutrition in Healthcare	o		o		Biol& 160 and CHEM& 121 with a minimum grade of C
	Sci 105	Intro Topics in Natural Science					Proficiency in Algebra
Chemistry	Chem& 110	Chemical Concepts	d,o	d,o	d,o	o	None
	Chem& 121	Intro to Inorganic Chem	d,hn	d,hn	d,hn	d,hn	Proficiency in Algebra
	Chem& 131	Intro to Organic/Biochem	d	d	hd	hd	Chem& 121 (minimum grade of C)
	Chem& 140	General Chem Prep w/ Lab	d	d	d	d	Proficiency in Algebra
	Chem& 161	General Chemistry 1	d,hn	d	d		Chem& 140 (minimum grade of C) or Chem& 121 (minimum grade of C) or one year of high school chemistry; and either Math& 141 (minimum grade of C; may be taken concurrently) or Math 147 (minimum grade of C; may be taken concurrently). Students having recently completed a year of high school chem may be able to enroll in Chem& 161. Request a Milestone well before your registration appointment. Demonstration of content mastery may be required.
	Chem& 162	General Chemistry 2		d,hn	d	d	Chem& 161 (minimum grade of C)
	Chem& 163	General Chemistry 3	d		d,hn	d	Chem& 162 (minimum grade of C)
	Chem& 261	Organic Chemistry 1	d				Chem& 163 (minimum grade of C)
	Chem& 262	Organic Chemistry 2		d			Chem& 261 (minimum grade of C)
	Chem& 263	Organic Chemistry 3			d		Chem& 262 (minimum grade of C)
Environmental Science, Geography, Geology & Oceanography	Envs& 101	Intro to Environmental Sci	d,o	d,o	d,o	o	Proficiency in Algebra
	Envs 105	Climate Change		dh			Proficiency in Algebra
	Envs 210	Maps, GIS & Environment			d		Proficiency in Algebra - same class as Geog 210
	Geog 205	Physical Geography	o		o	o	Proficiency in Algebra
	Geog 210	Maps, GIS & Environment			d		Proficiency in Algebra - same class as Envs 210
	Geol& 101	Intro to Physical Geology	hd	hd,n	n		Proficiency in Algebra
	Geol 108	Fossils & History of Life	d	hd	hd		Proficiency in Algebra - same class as Bio 105
	Geol 179	Special Topics in Geology			n		None
	Ocea& 101	Intro to Oceanography	o	o	o		Proficiency in Algebra
	Ocea 179	Special Topics in Oceanography					None

Engineering & Computer Science	CS 120	Computer Science Principles	d	d	d		Proficiency in Algebra
	CS 142	Java Programming 1	d/n	d/h	d	d	Math& 141 or equivalent assessment (Note: If no prior programming experience, CS 120 recommended.)
	CS 143	Java Programming 2	d	d/n	d/h		CS 142 (minimum grade of C)
	Engr& 104	Intro to Engr and Design	hd	hd	hd		Math at the 100 level with minimum grade of C (may be taken concurrently)
	Engr& 114	Engr Graphics/SolidWorks	hd	hd	hd		Math at the 100 level with minimum grade of C (may be taken concurrently)
	Engr 170	Intro to Materials Science			d		Chem& 162 (may be taken concurrently) and Math& 141
	Engr& 204	Electric Circuits			d		Math 238 (may be taken concurrently) and Phys& 222
	Engr& 214	Statics	d				Phys& 221 and Math& 153
	Engr& 215	Dynamics		d			Engr& 214 and Math& 153
	Engr& 224	Thermodynamics			d		Phys& 221, Math& 152 and Chem& 161
	Engr& 225	Mechanics of Materials			d		Math& 153 (may be taken concurrently) and Engr& 214
	Engr& 240	Engineering Computations		d			Math&153 and Math 220 (may be taken concurrently), and CS 120 recommended
Physics & Astronomy	Astr& 110	The Solar System	o	o	o		None
	Astr& 115	Stars, Galaxies, Cosmos	o	d	o	d	None
	Phys& 114	General Physics 1	d/n	d	d/n	d	Math at the 100 level with minimum grade of C (may be taken concurrently). MATH& 141 recommended.
	Phys& 115	General Physics 2		d/n	d	n	Math at the 100 level with minimum grade of C (may be taken concurrently) and PHYS& 114 with a minimum grade of C. MATH& 141 recommended.
	Phys& 116	General Physics 3			d		Math at the 100 level with minimum grade of C (may be taken concurrently) and PHYS& 114 with a minimum grade of C. MATH& 141 recommended.
	Phys& 221	Engr Physics - Mechanics	d	d/n	d		Math& 151 or equivalent. (Minimum grade of C.)
	Phys& 222	Engr Physics - E& M	d	d	n		Math& 152 or equivalent, and Phys& 221. (Minimum grade of C for all.)
	Phys& 223	Engr Pnysics - Waves, Optics	n	d	d		Phys& 221 (Minimum grade of C.)
Math	Math 41	Corequisite for Precalculus	d	d	d		Concurrent enrollment in Math& 141.
	Math 46	Corequisite for Statistics	d/n/hd/o	d/n/o/hd	d/n/o	d, o	Concurrent enrollment in Math& 146.
	Math 40	Corequisite for Intermediate Algebra	o	hd	d		Concurrent enrollment in Math 95.
	Math 95	Intermediate Algebra	d, o	d, o	d, o	d	Completion of the Directed Self Placement tool; or appropriate placement.
	Math& 107	Math in Society	hd/o	d/o	hd/o	o	Completion of the Directed Self Placement tool; or appropriate placement. Running Start students must place based on Running Start policies.
	Math &131	Math for Elementary Education 1		d			Completion of the Directed Self Placement tool; or appropriate placement. Running Start students must place based on Running Start policies.
	Math &132	Math for Elementary Education 2			d		Completion of the Directed Self Placement tool; or appropriate placement. Running Start students must place based on Running Start policies.
	Math& 141	Precalculus I	d/n/hd/o	d/hd/o	d/n/o	d, o	Completion of the Directed Self Placement tool; or appropriate placement. Running Start students must place based on Running Start policies.
	Math& 142	Precalculus II	d, o	d, n, o	d, hd, o	o	MATH& 141 with a minimum grade of C or appropriate MATH placement.
	Math& 146	Introduction to Statistics	d/n/hd/o	d/n/hd/o	d/n/hd/o	d/o	Completion of the Directed Self Placement tool; or appropriate placement. Running Start students must place based on Running Start policies.
	Math 147	College Algebra for Business & Economi	o, o	d, o	d, d	d	Completion of the Directed Self Placement tool; or appropriate placement. Running Start students must place based on Running Start policies.
	Math& 148	Business Calculus	d	d	o	o	Math147 with a minimum grade of C or appropriate MATH placement and department permission; and knowledge of Excel spreadsheet software including graphing.
	Math& 151	Calculus I	d, n, o	d, o, hd	d, o, hd	d, o	Math& 142 with a minimum grade of C or appropriate MATH placement and department permission.
	Math& 152	Calculus II	d, o	d, n, hd, o	d, o, hd	d, o	Math& 151 with a minimum grade of C or appropriate MATH placement and department permission.
	Math& 153	Calculus III	d, o	d, o	hd, n	d	Math& 152 with a minimum grade of C or appropriate MATH placement and department permission.
	Math 220	Linear Algebra	d	o	d		Math& 153 with a minimum grade of C or appropriate MATH placement and department permission.
	Math 238	Elements Of Differential Equations	o	d	d	d	Math& 153 with a minimum grade of C or appropriate MATH placement and department permission.
	Math& 254	Calculus IV	d	d	o	o	Math& 153 with a minimum grade of C or appropriate MATH placement and department permission.

cm - Computer mediated. d = Day section. n= Night section. o = Online section. h = Hybrid Online. hd = Day Hybrid Online. hn = Night Hybrid Online. y = offering planned, format unknown. ? = course may be offered