Fall 2024 - Summer 2025 Science, Engineering, and Math (SEM) Division Course Offerings and Prerequisites

TACOMA COMMUNITY COLLEGE

*Note: The quarters indicated are planned offerings for 2023-2024 only. Courses may be canceled, and/or times shifted, so offerings are not guaranteed.

COLLEGE	·		-				
	Course	Title		Quarters			Prerequisite classes
			Fall	Winter	Spring	Summer	·
	Biol& 100	Survey of Biology		d			Proficiency in Algebra
	Biol 105	Fossils & History of Life	d	hd	hd		Proficiency in Algebra
	Biol 110	Ecology			d		Proficiency in Algebra
	Biol 125	Biology in the Field					Proficiency in Algebra
	Biol 140	Marine Biology	d		d		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	d,o	0	Proficiency in Algebra
	Biol& 221	Evolution, Ecology & Biodiversity	d		d	hn	Chem& 161 (minimum grade of C may be taken concurrently), Biol& 160 (minimum grade of C)
	Biol& 222	Cellular & Molecular Biology	d,hn	d			Chem& 162 (may be taken concurrently) and Biol& 221 (minimum grade of C)
	Biol& 223	Biology of Organisms		d,hn	d		Biol& 222 and Chem& 162 (minimum grade of C)
Biology, Botany, Nutrition & Natural	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)
Science	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			d		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	0		0	-	Biol& 160 and CHEM& 121 with a minimum grade of C
	Sci 105	Intro Topics in Natural Science			d		Proficiency in Algebra
	Chem& 110	Chemical Concepts	d,o	d,o	d,o	0	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
	chemic 140	General enem riep w/ Lab	ŭ	ŭ	ŭ	ů	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
Chemistry	Chem& 161	General Chemistry 1	d,hn	d	d		taken concurrently).
chemistry							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)
		General Chemistry 3	d	u,iiii	d,hn	d	Chem& 162 (minimum grade of C)
		Organic Chemistry 1	d	1	۵,	~	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)
	Envs& 101	Intro to Environmental Sci	d,o	d,o	d,o	0	Proficiency in Algebra
	Envs 105	Climate Change	4,0	dh	4,0	0	Proficiency in Algebra
	Envs 210	Maps, GIS & Environment		un	d		Proficiency in Algebra - same class as Geog 210
	Geog 205	Physical Geography	0	1	0 0	0	Proficiency in Algebra
Environmental Science, Geography,	Geog 200 Geog 210	Maps, GIS & Environment			d	, in the second se	Proficiency in Algebra - same class as Envs 210
Geology & Oceanography	Geol& 101	Intro to Physical Geology	hd	hd,n	n		Proficiency in Algebra
Geology & Oceanography	Geol 101 Geol 108	Fossils & History of Life	d	hd	hd		Proficiency in Algebra - same class as Bio 105
	Geol 179	Special Topics in Geology		nu	n		None
	Ocea& 101	Intro to Oceanography	0	0	0		Proficiency in Algebra
	Ocea 179	Special Topics in Oceanography			Ū		None
	0000 1/3	special topics in oceanography	1	1			Indie

Size Computer Science Principles d <th< th=""><th>I. mum grade</th></th<>	I. mum grade
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Engr& 104 Intro to Engr and Design Ind Ind Ind Nath At the 100 level with minimum grade of C (may be taken concurrently) Engr 8.144 Engr Graphics/Solid/Works Ind Ind Nath At the 100 level with minimum grade of C (may be taken concurrently) Engr 8.204 Electric Circuits d Cheme X 223 (may be taken concurrently) and Mark A11 Engr 8.214 Electric Circuits d Phys.8.21 and Math X153 Engr 8.214 Statics d Phys.8.221 and Math X153 Engr 8.215 Dynamics d Phys.8.221 and Math X153 Engr 8.224 Thermodynamics d Phys.8.221 and Math X153 Engr 8.225 Mechanics of Materials d Math X153 (may be taken concurrently) and Phys.8.221 Engr 8.225 Mechanics of Materials d Math X153 (may be taken concurrently) and Engr 8.214 Engr 8.224 Thermodynamics d Math X153 (may be taken concurrently) and Phys.8.221 Engr 8.224 Mechanics of Materials d Math X153 (may be taken concurrently) and Phys.8.224 Engr 8.245 Machanics of Materials d Math X153 (may be tak	num grade
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Engineering & Computer Science Intro to Materials Science Engr & 204 Statics Intro to Materials Science Intro to Materials Science Intro to Materials Science Intro to Materials Science Engr & 214 Statics Intro to Materials Science Intro to Materials Science Intro to Materials Science Intro to Materials Science Engr & 214 Statics Intro to Materials Science Engr & 215 Dynamics Intro to Materials	num grade
Engineering & Computer Science Engr& 204 Electric Circuits d d Math 238 (may be taken concurrently) and Phys& 222 Engr& 214 Statics d - Phys& 221 and Math& 133 Engr& 215 Dynamics d d Engr& 214 and Math& 133 Engr& 224 Thermodynamics d d Phys& 221, Math& 152 and Chem& 161 Engr& 225 Mechanics of Materials d d Math& 153 (may be taken concurrently) and Engr& 214 Engr& 226 Applied Numerical Methods d d Math& 153 (may be taken concurrently) and Engr& 214 Engr& 240 Applied Numerical Methods d d Math& 153 (may be taken concurrently) and Engr& 214 Engr& 240 Applied Numerical Methods d d Math& 153 (may be taken concurrently) and Engr& 214 Engr& 241 Applied Numerical Methods d d None Phys& 110 The Solar System o o d None Phys& 114 General Physics 1 d/n d none None Phys& 114 General Physics 2 d/n	num grade
Engineering & Computer Science Engr. 2.14 Statics d Phys. 221 and Math. 153 Engr. 2.15 Dynamics d d Engr. 2.14 and Math. 153 Engr. 2.15 Dynamics d d Engr. 2.14 and Math. 153 Engr. 2.24 Thermodynamics d d Phys. 221, Math. 152 and Chem. 8.161 Engr. 2.25 Mechanics of Materials d Math. 153 (may be taken concurrently) and Engr. 2.14 Kaste 2.10 Thermodynamics d Math. 153 (may be taken concurrently) and Engr. 2.14 Applied Numerical Methods d Math. 353 required. Math. 220 and CS 120 recommended. Astr. 10 The Solar System o o None Astr. 115 Stars, Galaxies, Cosmos o d None Phys. 114 General Physics 1 d/n d Math at the 100 level with minimum grade of C (may be taken concurrently) and PHYS& 114 with a min of C. MATH& 141 recommended. Phys. 115 General Physics 2 d d/n d Math at the 100 level with minimum grade of C (may be taken concurrently) and PHYS& 114 with a min of C. MATH& 141 recommended. Phys. 211 Engr P	num grade
Engr& 215 Dynamics d d Engr& 214 and Math& 153 Engr& 224 Thermodynamics 0 d Phys& 221, Math& 152 and Chem& 161. Engr& 225 Mechanics of Materials 0 d Math& 153 (may be taken concurrently) and Engr& 214 Engr Applied Numerical Methods d d Math& 153 required. Math 220 and CS 120 recommended. Astr The Solar System o o o None Astr Stars, Galaxies, Cosmos o d None Phys& 114 General Physics 1 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 1 d/n d Math at the 100 level with minimum grade of C (may be taken concurrently) and PHYS& 114 with a min of C. MATH& 141 recommended. Phys& 115 General Physics 2 1 d/n d Math at the 100 level with minimum grade of C (may be taken concurrently) and PHYS& 114 with a min of C. MATH& 141 recommended. Phys& 212 Engr Physics 3 1 d d Math at the 100 level with minimum grade of C. (may be taken concurrently) and PHYS& 114 with a min	num grade
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Engr 240 Applied Numerical Methods d Math& 153 required. Math 220 and CS 120 recommended. Astr& 110 The Solar System o o o None Astr& 115 Stars, Galaxies, Cosmos o d o d None Astr& 115 Stars, Galaxies, Cosmos o d o d None Physk 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. Physk 116 General Physics 2 d/n d/n d math at the 100 level with minimum grade of C (may be taken concurrently) and PHYS& 114 with a min of C. MATH& 141 recommended. Physk 116 General Physics 3 d d Math at the 100 level with minimum grade of C (may be taken concurrently) and PHYS& 114 with a min of C. MATH& 141 recommended. Physk 221 Engr Physics - Mechanics d d/n d Math at the 100 level with minimum grade of C. (may be taken concurrently) and PHYS& 114 with a min of C. MATH& 141 recommended. Physk 221 Engr Physics - Mechanics d d/n d Math at the 100 level with minimum grade of C.) Phys& 222 Engr Physics - Waves, Optics n	num grade
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Phys& 223 Engr Pnysics - Waves, Optics n d d d Phys& 221 (Minimum grade of C.) 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, o Concurrent enrollment in Math& 141. Math 40 Corequisite for Intermediate Algebra o hd d Concurrent enrollment in Math& 146. Math 95 Intermediate Algebra d, o d, o d, o d Completion of the Directed Self Placement tool; or appropriate placement.	
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& 146. Math 95 Intermediate Algebra d, o d, o d, o d.o completion of the Directed Self Placement tool; or appropriate placement.	
Math 46 Corequisite for Statistics d/n/hd/o d/n/o d/n/o d, o Concurrent enrollment in Math & 146. Math 40 Corequisite for Intermediate Algebra o hd d Concurrent enrollment in Math & 146. Math 95 Intermediate Algebra d, o d, o d, o concurrent enrollment in Math 95.	
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 95 Intermediate Algebra d, o d, o d, o d Completion of the Directed Self Placement tool; or appropriate placement.	
Math 95 Intermediate Algebra d, o d, o d, o d Completion of the Directed Self Placement tool; or appropriate placement.	
Completion of the Directed Self Placement tool; or appropriate placement.	
Math& 107 Math in Society hd/o hd/o d/o hd/o o Competition of the one cate and the societient color, or appropriate placement. Or approprise placeme	
Math & 131 Math for Elementary Education 1 d Completion of the Directed Self Placement tool; or appropriate placement.	
Math 8131 Math for Elementary Education 1 d Running Start students must place based on Running Start policies.	
Math & 132 Math for Elementary Education 2 d d Completion of the Directed Self Placement tool; or appropriate placement.	
Wall GL32 Wall for Elementary Education 2 u 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 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/n 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 d, o d, o d, o d o d	
Running Start students must place based on Running Start policies.	
Math& 148 Business Calculus o d o d o Math147 with a minimum grade of C or appropriate MATH placement and department permission; and knowle spreadsheet software including graphing.	e of Excel
Math& 151 Calculus I d, n, o d, o, hd 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 hd Math& 153 with a minimum grade of C or appropriate MATH placement and department permission.	
Math 238 Elements Of Differential Equations o hd d d Math& 153 with a minimum grade of C or appropriate MATH placement and department permission.	
Math& 254 Calculus IV hd 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. h = Day Hybrid Online. h = Night Hybrid Online. y = offering planned, format unknown. ? = course may be offered