

Engineering Related Course Offerings and Prerequisites

*Note: The quarters indicated are tentative, planned offerings for 2016-2017 only. Courses may be canceled, and/or times shifted, so offerings are not guaranteed.

5/2/2017

	Course	Title	Quarters Offered*				Prerequisite classes
			Su	F	W	Sp	
Biology	Biol& 160	General Cell Biology	d n	d n h	d n h	d n h	See General Prerequisite
	Biol& 221	Evolution, Ecology & Biodiversity		d		d	Biol& 160 and Chem&161
	Biol& 222	Cellular & Molecular Biology		d	d		Biol& 221
	Biol& 223	Biology of Organisms		d	d	d	Biol& 222 and Chem& 162
Chemistry	Chem& 110	Chemical Concepts	d n h	d n h	d n h	d n h	Math 95 or higher or TMath 100 (minimum grade of C; may be taken concurrently)
	Chem& 121	Intro to Inorganic Chem	d n h	d n h	d n h	d n h	Math 95 or higher or TMath 100 (minimum grade of C; may be taken concurrently) AND Chem& 110 (minimum grade of C) or high school chemistry. (See note below.)
	Chem& 161	General Chemistry 1		d n	d n	d	Math& 141 or 147 (minimum grade of C; may be taken concurrently) AND Chem& 121 (minimum grade of C) or high school chemistry. (See note below.)
	Chem& 162	General Chemistry 2	d		d	d n	Chem& 161 (minimum grade of C)
	Chem& 163	General Chemistry 3	d n	d		d	Chem& 162 (minimum grade of C)
	Chem& 261	Organic Chemistry 1		d	d		Chem& 163 (minimum grade of C)
	Chem& 262	Organic Chemistry 2			d	d	Chem& 261 (minimum grade of C)
Chem& 263	Organic Chemistry 3	d			d	Chem& 262 (minimum grade of C)	
Engineering & Computer Science	CS 142	Java Programming 1	d	d	d	d n	Math& 141 or equivalent assessment
	CS 143	Java Programming 2		d	d n	d	CS 142 (minimum grade of C)
	Engr& 104	Intro to Engr and Design		d	d	d	See General Prerequisite
	Engr& 114	Engr Graphics/SolidWorks	h	h	h	h	See General Prerequisite
	Engr& 204	Electric Circuits				d	Phys& 222 and Math 238 (Math 238 may be taken concurrently).
	Engr& 214	Statics		d			Phys& 221 (may be taken concurrently) and Math& 152
	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	Applied Numerical Methods				d	Math& 153. Math 220 recommended. (Note: May be changed to Math 220 required.)	
English, Math & Physics	Engl& 101	English Composition 1	d n o	d n o	d n o	d n o	See English Prerequisite
	Engl& 235	Technical Writing	d	d	d	d	Engl& 101 (minimum grade of C)
	Math& 151	Calculus 1	d	d n	d	d	Math& 142 (minimum grade of C); English Prerequisite (below). See Placement note.
	Math& 152	Calculus 2	d	d	d n	d	Math& 151 (minimum grade of C); English Prerequisite (below).
	Math& 153	Calculus 3	d	d	d	d n	Math& 152 (minimum grade of C); English Prerequisite (below).
	Math 220	Linear Algebra		d	d n		Math& 153 (minimum grade of C); English Prerequisite (below).
	Math 238	Elements of Differential Equations			d	d n	Math& 153 (minimum grade of C); English Prerequisite (below).
	Math& 254	Calculus 4	d	d		d	Math& 153 (minimum grade of C); English Prerequisite (below).
	Phys& 221	Engr Physics - Mechanics		d n	n	d n	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 Physics - Waves, Optics		n	d	d	Phys& 221 (Minimum grade of C.)	

d = Day section. n = Night section. o = Online section. h = Hybrid Online. x = Course offered, time unknown ? = Possible offering



2017-2018

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Prerequisites and Notes	General Prerequisite	(ENGL 95 and READ 95) OR ENGL/ 95 (minimum grade of C); Math 90 OR 93 (minimum of C) or equivalent assessment
	English Prerequisite	(ENGL 95 and READ 95) OR ENGL/ 95 (minimum grade of C); or assessment at or above college level reading and writing. (Note: For math classes, Engl 95 is not required, but Read 95 or Engl/95 is.)
	Math Placement note	Math assessment determines placement. From lowest placement, the path to calculus is Math 75, 85, 90, 96/140, Math& 141, and 142. Minimum math grades of C required in each class to advance. Minimum grade of B to go from 90 to 96/140 without also needing 95. Visit the Math Advising Resource Center (MARC) for more information.
	Chem& 121 Note	Students having recently completed a year of high school chem may be able to bypass Chem& 110 and enroll in Chem& 121 (or 161). Request a milestone well before your registration appointment. See Milestone Distribution List for contact information. (Available at Building 15 reception.) Demonstration of content mastery may be required.
	Chem& 161 Note	Students having recently completed a year of high school chem or Chem& 110 with minimum grade of A- may be able to enroll in Chem& 161. Request a Milestone code from Mark Allen (mallen@tacomacc.edu) before registration. Demonstration of content mastery may be required.