

<b>MATHEMATICS REQUIREMENTS AND SEQUENCING          BASED ON UT ARTICULATION/TRANSFER AGREEMENTS</b>
--

ALL STUDENTS, INCLUDING SPECIAL STUDENTS, MUST MEET PSCC REQUIREMENTS FOR MATH PLACEMENT.

Students needing courses in developmental mathematics before registering for a college level math class, please see the

Transitional Studies Advising Chart

[http://www.pstcc.edu/departments/curriculum\\_and\\_instruction/advising/dsp/rd-advising.htm](http://www.pstcc.edu/departments/curriculum_and_instruction/advising/dsp/rd-advising.htm)

**\*\*WEB-BASED READINESS QUIZZES:** Students who are concerned about their math skills should complete the appropriate web-based readiness quizzes at [http://www.math.buffalo.edu/rur\\_index.html](http://www.math.buffalo.edu/rur_index.html). Self-quizzes are available for Intermediate Algebra through Ordinary Differential Equations. These quizzes are useful for self-assessment and review purposes only; they are **NOT** valid for placement.

**GENERAL RECOMMENDATION:** The Mathematics Department **strongly recommends** that a student have **AT LEAST** a "C" in **all prerequisite math courses** before advancing to the next course in a sequence.

\*\*\*\*\***SAT SCORES:** These are the recentered scores for tests given **ON/AFTER 4/1/95**.\*\*\*\*\*

- Approved for TBR general education requirements  
& Removes HS A89 deficiency

**T** Approved for UTK general education requirements  
Credit hours stated after course title

NUMBER (UTK NUMBER)	COURSE- CREDIT HR	PREREQUISITES	COMMENTS
● <b>T</b> MATH 1010 (Math 113)	Survey of Mathematics-3	HS Algebra I and II and ACT math 19 (SAT 460-470) <b>OR</b> DSPM 0899 or equivalent math placement score	A broad-based mathematics survey course
● <b>T</b> MATH 1530 (Math 115)	Elementary Probability and Statistics-3	HS Algebra I and II and ACT math 19 (SAT 460-470); <b>OR</b> DSPM 0899 or equivalent math placement score	Non-calculus based statistics course. Recommended for nursing majors <b>NOT</b> transferring to UTK.

FOR ELEMENTARY EDUCATION MAJORS ONLY

NUMBER	COURSE CREDIT HR	PREREQUISITES	COMMENTS
● <b>T</b> MATH 1410 (Math 201)	The Structure of the Number System-3	HS Algebra I and II and geometry, ACT math 19 (SAT 460-470); <b>OR</b> DSPM 0899 or equivalent math placement score.	Recommended for prospective elementary education majors transferring to TBR schools.
● <b>T</b> MATH 1420 (Math 202)	Geometry/ Statistics-3	HS Algebra I and II and geometry, ACT math 19 (SAT 460-470); <b>OR</b> DSPM 0899 or equivalent math placement score.	Recommended for prospective elementary education majors. <b>Beginning 2005-2006</b> agreement, also take MATH 1010 or 1530.

**FOR ENGINEERING, MATHEMATICS, COMPUTER SCIENCE and SCIENCE**


Most pre-engineering students need MATH 1910, 1920, 2000, 2110, and 2120, although **some may not need MATH 2000. Students should check their UTK articulation/transfer agreements carefully; these requirements may have changed!**

Mathematics, statistics, and science majors probably do not need all of the courses listed above. **Students should check their UTK articulation agreements carefully, as these requirements may have changed!**

Students who did not take precalculus with trigonometry in high school and/or have a math ACT score less than 26 may need to take a precalculus course before taking MATH 1910. \*\*\*\*(See Recommendations Below)

**BIOLOGY (IBIO), CHEMISTRY (ICM) AND COMPUTER SCIENCE (ICST):** need 1910–1920

**MATHEMATICS (IMAT):** need 1910–1920; 2110

NUMBER	COURSE CREDIT HR	PREREQUISITES	COMMENTS
● & MATH 1710 (Must take <b>both</b> 1710 and 1720 to equal Math 130)	Precalculus Algebra-3	HS Algebra I and II and ACT math 19 (SAT 460-470); <b>OR</b> DSPM 0899 <b>OR</b> equivalent math placement score ****(See Recommendations Below)	The successful completion of 1710 and 1720 prepares the student for MATH 1910. Students taking both 1710 and 1720 must take 1710 first.
● MATH 1720 (Must take <b>both</b> 1710 and 1720 to equal Math 130)	Precalculus Trigonometry-3	MATH 1710 or consent of Mathematics Department  ****(See Recommendations Below)	The successful completion of 1710 and 1720 prepares the student for MATH 1910. Students taking both 1710 and 1720 must take 1710 first.
● & MATH 1730 (Math 130)	Precalculus: Algebra and Trigonometry-5	HS Algebra I and II, and ACT math 19 (SAT 460-470); <b>OR</b> DSPM 0899 <b>OR</b> equivalent math placement score ****(See Recommendations Below)	<b>Intensive fast-paced review</b> of precalculus and trigonometry which prepares the student for MATH 1910. <b>MATH 1710 + MATH 1720 = MATH 1730</b>
<p>****<b>RECOMMENDATIONS FOR MATH 1730:</b></p> <ul style="list-style-type: none"> <li>+Students completing DSPM 0899 are <b>strongly encouraged</b> to take 1710 and 1720 (in that order) in place of 1730.</li> <li>+Students with ACT math score of at least 19 (SAT 460-470), but who did not take precalculus with trigonometry in high school are <b>strongly encouraged</b> to take 1710 and 1720 (in that order)</li> <li>+Students with ACT math scores of 19-20 (SAT 460-490) who have taken precalculus with trigonometry in high school are <b>encouraged</b> to take 1710 and 1720 (in that order)</li> <li>+Students with ACT math score of at least 21 (SAT 500-510) who have taken precalculus with trigonometry in high school should be prepared for 1730, but may elect to take 1710 and 1720 (in that order) instead.</li> <li>+Students must complete MATH 1710 before taking MATH 1720. The department will consider exceptions for the following students only: <ul style="list-style-type: none"> <li>+Students with ACT math score of at least 21 (SAT 500-510) who have taken precalculus with trigonometry in high school, but who need trigonometry review only.</li> <li>+Students who have passed MATH 1730, but need to improve their trigonometry skills.</li> <li>+Students who qualify for MATH 1910 (Calculus I) may take 1720 alone or concurrently as a review with 1910.</li> </ul> </li> </ul>			
●  MATH 1910 (Math 141)	Calculus I -4	HS Algebra I & II, geometry, precalculus <b>with trig</b> , and satisfactory ACT/SAT math scores; <b>OR</b> MATH 1730; <b>OR</b> MATH 1710 <b>AND</b> 1720 ****(See Recommendations Below)	For students majoring in science, math, engineering, or computer science. Students <b>MUST</b> have precalculus with trigonometry before taking MATH 1910.
<p>****<b>RECOMMENDATIONS FOR MATH 1910:</b></p> <ul style="list-style-type: none"> <li>+An ACT math score of at least 26 (SAT 590-600) is recommended for this course (in addition to precalculus with trig).</li> <li>+Students with ACT math scores of 19-20 (SAT 460-490) or completing DSPM 0850 should take MATH 1710 <b>AND</b> 1720 or equivalent before enrolling in MATH 1910. A grade of C or better in both courses is <b>strongly recommended</b>.</li> <li>+Students with ACT math scores of 21-23 (SAT 500-550) should take either MATH 1730 <b>OR</b> MATH 1710 <b>AND</b> 1720 or equivalent before enrolling in MATH 1910. A grade of C or better in all courses is <b>strongly recommended</b>.</li> </ul>			

<b>T</b> MATH 1920 (Math 142)	Calculus II-4	MATH 1910; <b>grade of C or better is strongly recommended</b>	
MATH 2000 (Math 200)	Matrix Computations-1	MATH 1920	<b>Check UTK articulation agreement to see if MATH 2000 is currently required for your major!</b> Offered: Spring Only
MATH 2010 (Math 251)	Matrix Algebra-3	MATH 1920	Offered: Spring Only
MATH 2110 (Math 241)	Calculus III-4	MATH 1920; <b>grade of C or better is strongly recommended</b>	
MATH 2120 (Math 231)	Differential Equations-3	MATH 1920; <b>grade of C or better is strongly recommended</b>	

NUMBER	COURSE CREDIT HR	PREREQUISITES	COMMENTS
• & MATH 1130 (Math 119)	College Algebra-3	HS Algebra I and II and ACT math 19 (SAT 460-470); <b>OR</b> DSPM 0899 <b>OR</b> equivalent math placement score.	For students who did not take precalculus in high school and/or do not have required math ACT scores. Prepares the student for MATH 1630 or 1830. <b>****(See Recommendations Below)</b>
• <b>T</b> MATH 1630 (Math 123)	Finite Mathematics-3	HS Algebra I and II and precalculus and satisfactory ACT/SAT math scores; <b>OR</b> MATH 1130 <b>OR</b> 1710 <b>OR</b> 1730 <b>****(See Recommendations Below)</b>	Students needing <b>BOTH</b> MATH 1630 and 1830 are strongly encouraged to take MATH 1830 immediately after MATH 1130.
<b>****RECOMMENDATIONS FOR MATH 1630:</b> +An ACT math score of at least 21 (SAT 500-510) is recommended for this course (in addition to course prerequisites). +Students with ACT math scores of 19-20 (SAT 460-490) or completing DSPM 0899 must take MATH 1130 before taking MATH 1630.			
• <b>T</b> MATH 1830 (Math 125)	Basic Calculus and Modeling-4	HS Algebra I and II, precalculus, and satisfactory math ACT/SAT scores; <b>OR</b> MATH 1130 <b>OR</b> 1710 <b>OR</b> 1730 <b>****(See Recommendations Below)</b>	Students needing <b>BOTH</b> MATH 1630 and 1830 should take MATH 1830 immediately after MATH 1130. <b>NOT</b> intended for science, engineering, math or computer science majors.
<b>****RECOMMENDATIONS FOR MATH 1830:</b> +An ACT math score of at least 23 (SAT 540-550) is recommended for this course (in addition to course prerequisites). +Students with ACT math scores of 19-20 (SAT 460-490) or completing DSPM 0850 take MATH 1130 before 1830.			
<b>T</b> MATH 2050 (Stat 201)	Introduction to Statistics-3	MATH 1830 <b>OR</b> MATH 1910	Calculus-based statistics course

This Chart Should Only be Used as a Supplement to Available Advising Resources 9/15/2010