



College Math Classes Offered at LCM High School 2018-2019

College Algebra (Math 1314) (Full Year)

Study of linear and quadratic equations and inequalities, logarithmic and exponential functions, graphs, systems of equations, matrices, partial fractions, binomial theorem, theory of equations.
(Student will be required to purchase a textbook and will need a graphing calculator.)

This course is recommended for students who will not need Calculus for their college major. Students should look at what math courses are required by the university they plan to attend, as many colleges/majors do not offer/accept College Algebra.

Prerequisites

- Algebra II
- TSI Mathematics 350 minimum

College Pre-Calculus (Math 2312) (Full Year)

A survey of college algebra, trigonometry and analytical geometry to prepare students for calculus. Topics include algebraic functions and their graphs, exponential and logarithmic functions, trigonometric functions and identities, two and three dimensional analytical geometry.
(Student will be required to purchase a textbook and will need a graphing calculator.)

This course is recommended for students who will need Calculus for their college major. Students in heavy math or science fields should consider this course. This can also be the second college math for many students who took the full-year College Algebra (Math 1314). **This course moves much more swiftly than College Algebra. This course should only be considered by STRONG math students.**

Prerequisites

- PAP Algebra II (or a very strong average in regular Algebra II)
- TSI Mathematics 350 minimum

College Calculus (Math 2413) (Full Year)

A study of functions, limits, continuity, differentiation of algebraic and trigonometric functions, applications of the derivative, definite and indefinite integrals with applications.
(Student will NOT be required to purchase a textbook but will need a graphing calculator.)

This course is recommended for students who will need Calculus for their college major. Students in heavy math or science fields should consider this course.

Prerequisites

- Precalculus

To register with UT Tyler, **ONE** of the following additional requirements must also be met:

- SAT 705 Math or ACT 27 Math
- At least a "C" in College Pre-Calculus (Math 2312)
- Passing score on UT Tyler's Calculus Placement (Trigonometry) Test (for students who did not co-enroll College Pre-Calculus last year).

If you have any questions,
please contact
Nita Stewart
UTTyler Algebra, Pre-Calculus,
Calculus
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Science

College Science Classes Offered at LCM High School 2018-2019

It's registration time! As you and your student consider which classes to select for next year, please consider one of the following **college dual credit courses** offered in the LCM Science Department.

FALL SEMESTER:

CHEM 1311/1111 (or CHEM 1411*)	General Chemistry 1 + LAB	4 semester hours credit (UT Tyler)
BIOL 1306/1106 (or BIOL 1406*)	General Biology 1 + LAB	4 semester hours credit (UT Tyler)
BIOL 2301/2101 (or BIOL 2401*)	Anatomy & Physiology 1 + LAB	4 semester hours credit (LSCO)

SPRING SEMESTER:

CHEM 1312/1112 (or CHEM 1412*)	General Chemistry 2 + LAB	4 semester hours credit (UT Tyler)
BIOL 1307/1107 (or BIOL 1407*)	General Biology 2 + LAB	4 semester hours credit (UT Tyler)
BIOL 2302/2102 (or BIOL 2402*)	Anatomy & Physiology 2 + LAB	4 semester hours credit (LSCO)

*Some colleges combine the lecture and lab courses into ONE course. When checking transferability, check for both combinations (i.e. lecture 1311 + lab 1111 or the courses combined 1411)

Please be aware of the following as you make your decisions:

- Dual credit science classes may be taken by 11th or 12th graders;
- Dual credit science courses will transfer to **any** state college or university; *i.e.*, University of Texas, Texas A&M University, Sam Houston State University, Texas State University, Stephen F. Austin State University, and more...
- Many private colleges and universities also accept these courses;
- Most college degree plans (Business, Education, Engineering, etc.) require a minimum of 2 semesters (8 hours) of the same science;
- Some college degree plans (Pre-Med, Health Care, Biology, etc.) require Anatomy & Physiology;
- Cost is relatively low compared to cost of on-site college courses;
- Most college freshman science classes have a minimum of 200 to 300 students per section which makes one-on-one help very unlikely;
- Students receive college credit if they pass the course;
- Students are **not required** to pass an AP Test (or any test) to gain college credit;
- Students may opt out of college credit and take the course as honors at **no cost**;
- Students receive high school **honors credit** which includes extra grade points.

If you have any questions or concerns, please contact Woody Cox, Jane Dunn, or Michael Longmire at LCM High School Science Department or Marcia Brown in the LCMHS Counselor's Office.

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Michael Longmire
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